



FCC TEST REPORT

REPORT NO.: RF940623L11

MODEL NO.: SMCWUSBT-G

Refer to page 6 for other models

RECEIVED: Jun. 23, 2005

TESTED: Jun. 23 ~ Jul. 15, 2005

ISSUED: Jul. 15, 2005

APPLICANT: ASKEY COMPUTER CORP.

ADDRESS: 10F, NO.119, CHIENKANG RD, CHUNG-HO,
TAIPEI, TAIWAN, R. O. C.

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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0528
ILAC MRA



No. 2177-01



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1. CERTIFICATION

PRODUCT: EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter
MODEL NO.: SMCWUSBT-G
Refer to page 6 for other models
BRAND NAME: SMC
Refer to page 6 for other brand
APPLICANT: ASKEY COMPUTER CORP.
TESTED: Jun. 23 ~ Jul. 15, 2005
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

The above equipment 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 : Wendy Liao , **DATE:** Jul. 15, 2005
Wendy Liao

TECHNICAL ACCEPTANCE : Gary Chang , **DATE:** Jul. 15, 2005
Responsible for RF Gary Chang.

APPROVED BY : Cody Chang , **DATE:** Jul. 15, 2005
Cody Chang / Deputy 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 -17.29dB at 0.216MHz
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 -4.32dB 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	3.73 dB
	200MHz ~ 1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter
MODEL NO.	SMCWUSBT-G Refer to Note 1 for other models
POWER SUPPLY	5.0Vdc from host equipment
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 (Turbo mode: up to 108Mbps *see Note 3)
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	Normal:11; Turbo :1
OUTPUT POWER	32.285mW
ANTENNA TYPE	Printed antenna with 2dBi gain
DATA CABLE	NA
I/O PORTS	USB
ASSOCIATED DEVICES	NA

NOTE:

1. The models as below are identical to each other except for their model designation and brand name, due to marketing requirement.

Model Name	Brand	Description
SMCWUSBT-G-CA	SMC	Only different from models
SMCWUSBT-G-EU	SMC	Only different from models
SMCWUSBT-G-CH	SMC	Only different from models
SMCWUSBT-G-EUA	SMC	Only different from models
WLU3010	Askey	different from models and brand

2. 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.
3. This EUT is capable of providing data rates of up to 108Mbps in Turbo Mode depending upon reception quality.
4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

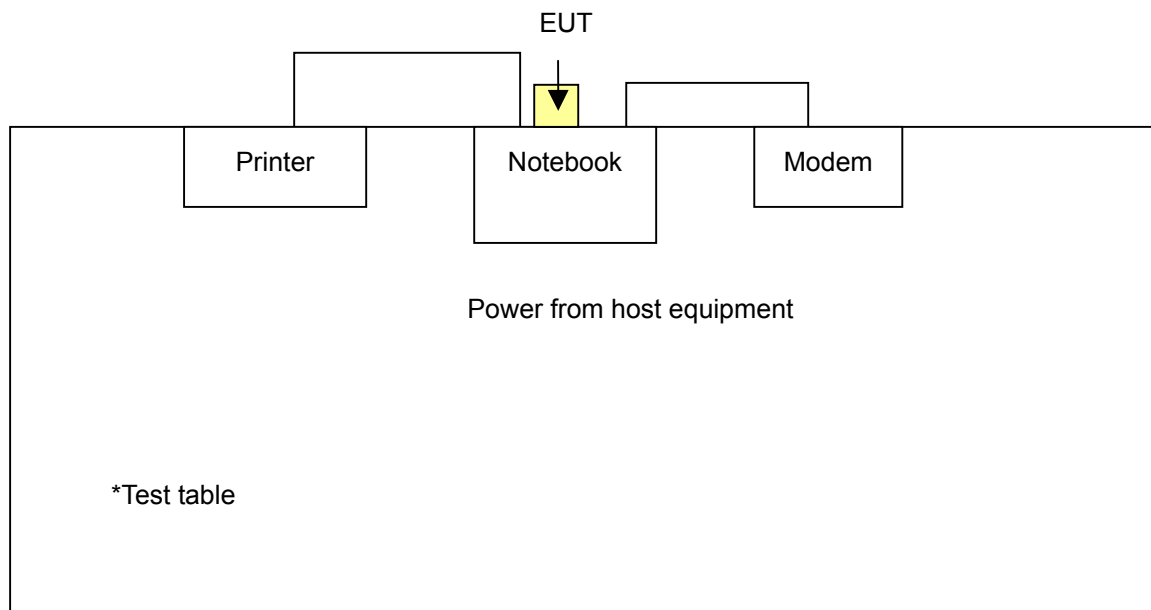
Eleven channels are provided to this EUT.

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		

For 802.11g: One channel is provided to this EUT for turbo mode.

Channel	Frequency
6	2437 MHz

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

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

POWER LINE CONDUCTED EMISSION TEST:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

RADIATED EMISSION TEST (BELOW 1 GHz):

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11g Turbo	6	6	OFDM	BPSK	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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 11	DSSS	CCK	11
802.11g	1 to 11	1, 11	OFDM	BPSK	6
802.11g Turbo	6	6	OFDM	BPSK	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.

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



3.2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter. 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	12130898320	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414

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

NOTE: 1. All power cords of the above support units are non shielded (1.8m).



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 16, 2005
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May. 02, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
Software ADT	ADT_Cond_V3	NA	NA

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



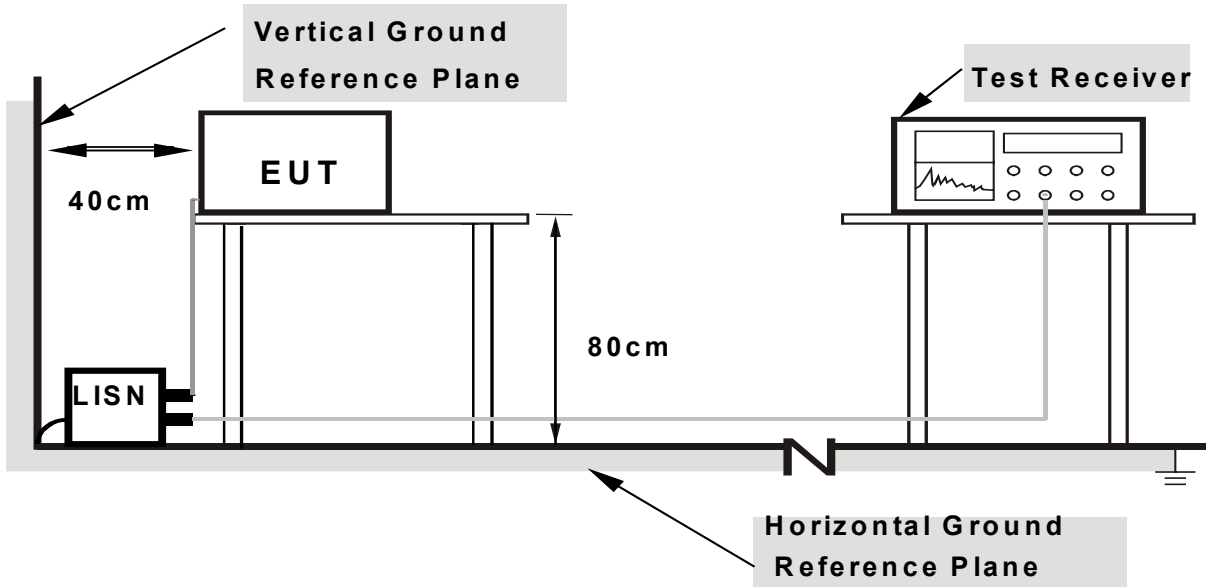
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT into Notebook placed on a testing table.
- b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The notebook system sent "H" messages to its screen.
- d. The notebook system sent "H" messages to modem.
- e. The notebook system sent "H" messages to printer, and the printer printed them on paper.
- f. Steps c ~ e were repeated.



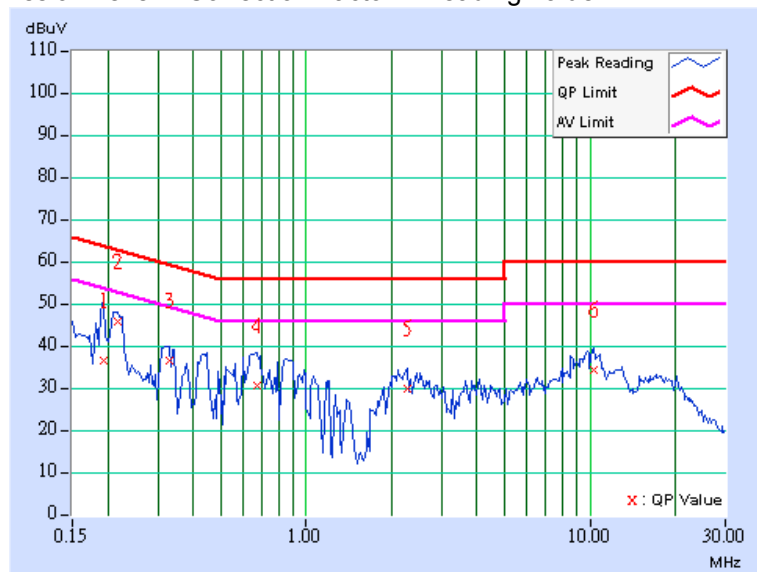
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	PHASE	Line 1
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.11	36.31	-	36.42	-	63.91	53.91	-27.49	-
2	0.216	0.11	45.56	-	45.67	-	62.96	52.96	-17.29	-
3	0.330	0.11	36.15	-	36.26	-	59.46	49.46	-23.20	-
4	0.670	0.17	30.08	-	30.25	-	56.00	46.00	-25.75	-
5	2.270	0.28	29.51	-	29.79	-	56.00	46.00	-26.21	-
6	10.375	0.54	33.95	-	34.49	-	60.00	50.00	-25.51	-

- 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.

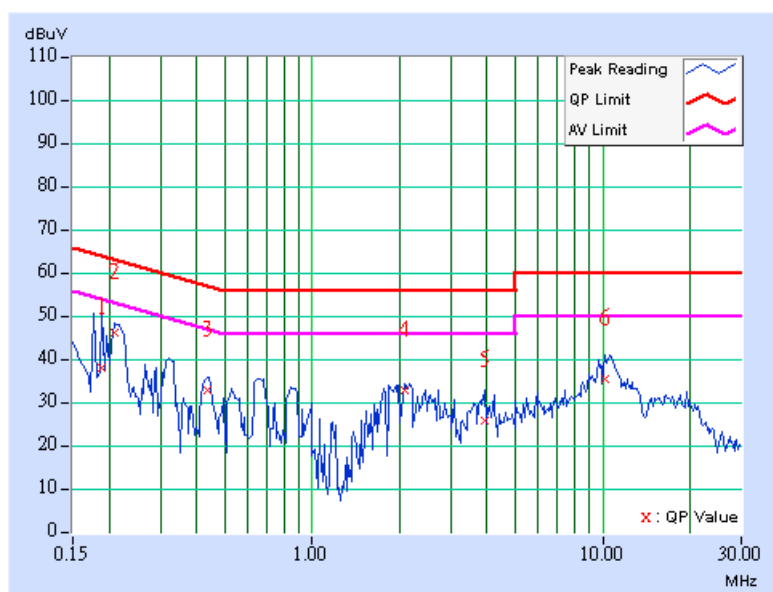




EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	PHASE	Line 2
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.189	0.11	37.58	-	37.69	-	64.08
2	0.209	0.11	45.80	-	45.91	-	63.26	53.26	-17.35	-
3	0.435	0.12	32.61	-	32.73	-	57.15	47.15	-24.43	-
4	2.086	0.27	32.44	-	32.71	-	56.00	46.00	-23.29	-
5	3.918	0.38	25.40	-	25.78	-	56.00	46.00	-30.22	-
6	10.203	0.44	34.97	-	35.41	-	60.00	50.00	-24.59	-

- 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.

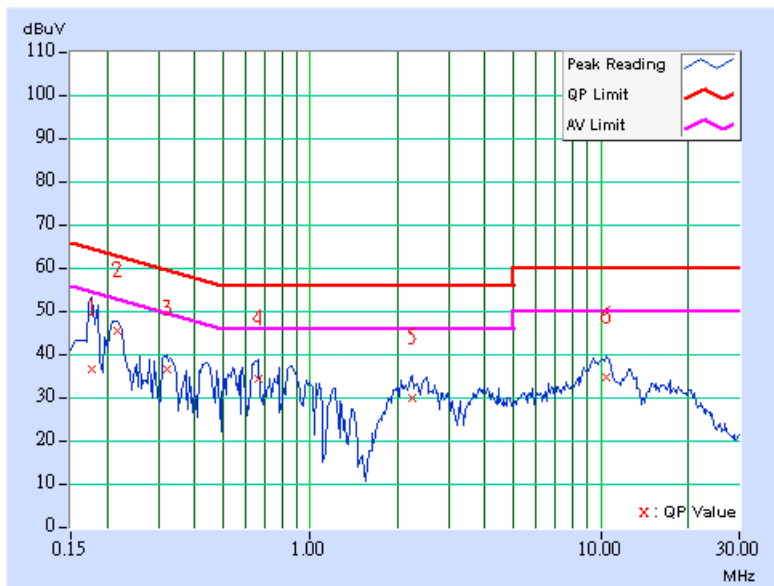




EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	PHASE	Line 1
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.11	35.98	-	36.09	-	64.61	54.61	-28.52	-
2	0.216	0.11	45.19	-	45.30	-	62.96	52.96	-17.66	-
3	0.322	0.11	36.21	-	36.32	-	59.66	49.66	-23.34	-
4	0.666	0.17	33.89	-	34.06	-	56.00	46.00	-21.94	-
5	2.254	0.28	29.34	-	29.62	-	56.00	46.00	-26.38	-
6	10.414	0.54	34.16	-	34.70	-	60.00	50.00	-25.30	-

- 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.

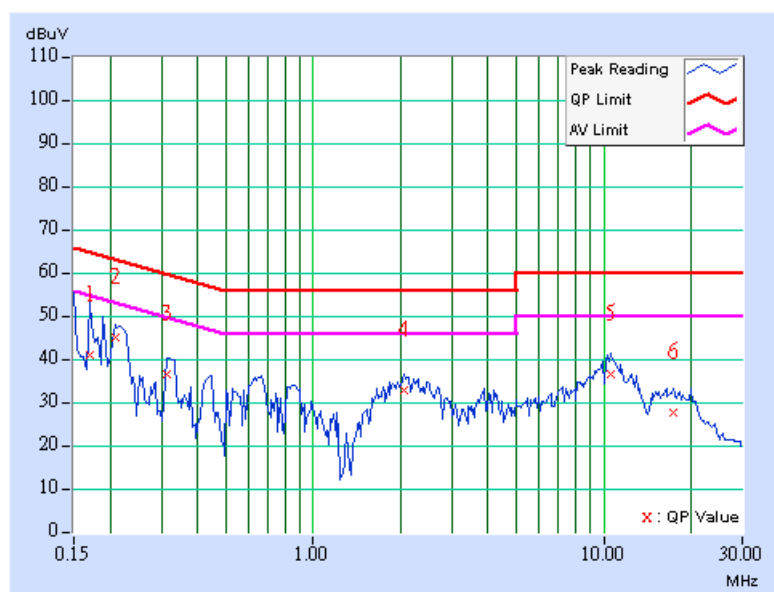




EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	PHASE	Line 2
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.170	0.11	40.57	-	40.68	-	64.98
2	0.209	0.11	44.69	-	44.80	-	63.26	53.26	-18.46	-
3	0.314	0.11	36.18	-	36.29	-	59.86	49.86	-23.57	-
4	2.043	0.26	32.36	-	32.62	-	56.00	46.00	-23.38	-
5	10.598	0.44	35.91	-	36.35	-	60.00	50.00	-23.65	-
6	17.395	0.58	27.22	-	27.80	-	60.00	50.00	-32.20	-

- 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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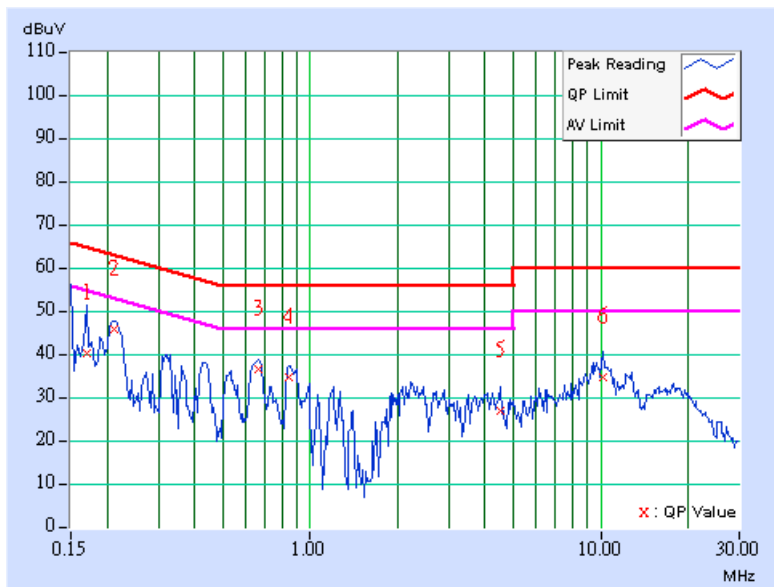




EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	PHASE	Line 1
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.11	39.97	-	40.08	-	64.98	54.98	-24.91	-
2	0.213	0.11	45.24	-	45.35	-	63.11	53.11	-17.76	-
3	0.662	0.17	36.03	-	36.20	-	56.00	46.00	-19.80	-
4	0.845	0.21	34.23	-	34.44	-	56.00	46.00	-21.56	-
5	4.496	0.40	26.32	-	26.72	-	56.00	46.00	-29.28	-
6	10.215	0.54	34.39	-	34.93	-	60.00	50.00	-25.07	-

- 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.

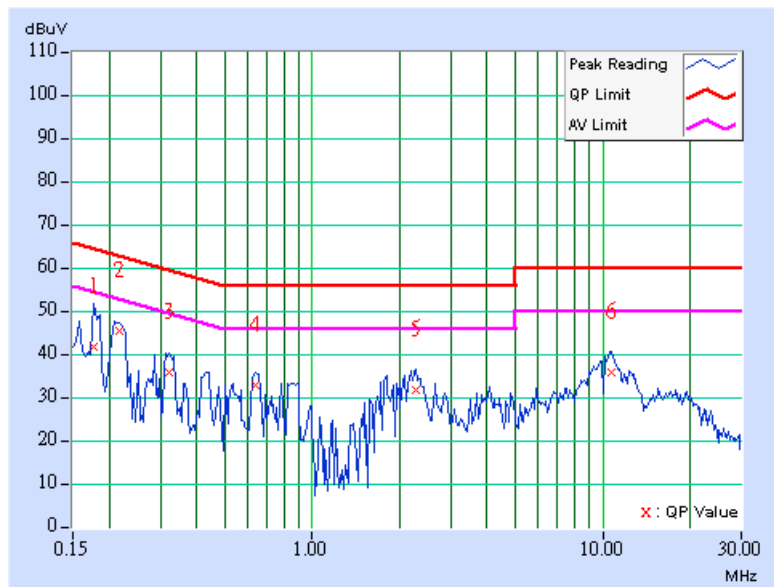




EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	PHASE	Line 2
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.11	41.29	-	41.40	-	64.61	54.61	-23.21	-
2	0.216	0.11	45.07	-	45.18	-	62.96	52.96	-17.78	-
3	0.322	0.11	35.61	-	35.72	-	59.66	49.66	-23.94	-
4	0.638	0.16	32.46	-	32.62	-	56.00	46.00	-23.38	-
5	2.289	0.28	31.41	-	31.69	-	56.00	46.00	-24.31	-
6	10.730	0.44	35.50	-	35.94	-	60.00	50.00	-24.06	-

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





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Jan. 07, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 29, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 22, 2006
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Jan. 05, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170242	Jan. 23, 2006
Preamplifier Agilent	8447D	2944A10631	Nov. 17, 2005
Preamplifier Agilent	8449B	3008A01960	Nov. 14, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Jan. 26, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219275/4	Jan. 26, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

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



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.

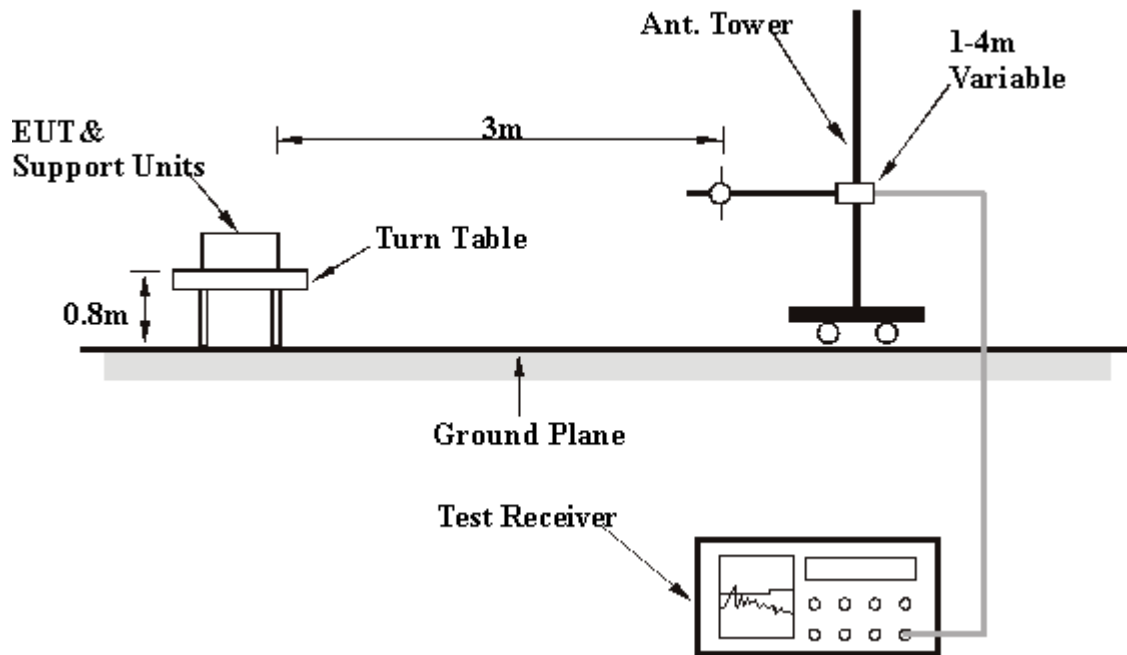
NOTE:

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 and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) 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 related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

RADIATED WORST-CASE DATA: BELOW 1GHZ

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Brad Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	164.13	27.65 QP	43.50	-15.85	1.00 H	139	13.13	14.52
2	199.12	27.54 QP	43.50	-15.96	1.00 H	100	16.19	11.34
3	354.63	32.14 QP	46.00	-13.86	1.00 H	73	16.51	15.63
4	399.34	39.30 QP	46.00	-6.70	1.00 H	13	22.58	16.71
5	465.43	31.58 QP	46.00	-14.42	3.00 H	205	13.40	18.18
6	665.65	31.90 QP	46.00	-14.10	2.00 H	190	10.26	21.64

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	61.10	29.66 QP	40.00	-10.34	1.00 V	175	16.17	13.49
2	133.03	32.42 QP	43.50	-11.08	2.00 V	46	18.53	13.89
3	177.74	37.17 QP	43.50	-6.33	1.00 V	289	24.03	13.13
4	356.57	31.63 QP	46.00	-14.37	2.00 V	67	15.95	15.68
5	488.76	31.78 QP	46.00	-14.22	1.00 V	262	13.33	18.44
6	667.60	31.81 QP	46.00	-14.19	1.00 V	310	10.15	21.66

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



802.11b DSSS MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	42.05 PK	74.00	-31.95	1.02 H	29	12.25	29.80
2	2376.00	47.45 PK	74.00	-26.55	1.00 H	33	16.18	31.27
2	2376.00	39.24 AV	54.00	-14.76	1.00 H	33	7.97	31.27
3	*2412.00	105.75 PK			1.00 H	33	74.34	31.41
3	*2412.00	97.54 AV			1.00 H	33	66.13	31.41
4	4824.00	48.67 PK	74.00	-25.33	1.08 H	291	11.86	36.81
4	4824.00	35.81 AV	54.00	-18.19	1.08 H	291	-1.00	36.81
5	7236.00	57.22 PK	74.00	-16.78	1.35 H	31	14.62	42.60
5	7236.00	45.67 AV	54.00	-8.33	1.35 H	31	3.07	42.60

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	2016.00	40.32 PK	74.00	-33.68	1.38 V	62	10.52	29.80
2	2376.00	41.85 PK	74.00	-32.15	1.58 V	57	10.58	31.27
2	2376.00	33.93 AV	54.00	-20.07	1.58 V	57	2.66	31.27
3	*2412.00	98.85 PK			1.58 V	57	67.44	31.41
3	*2412.00	90.93 AV			1.58 V	57	59.52	31.41
4	4824.00	47.75 PK	74.00	-26.25	1.02 V	321	10.94	36.81
4	4824.00	34.95 AV	54.00	-19.05	1.02 V	321	-1.86	36.81
5	7236.00	55.17 PK	74.00	-18.83	1.00 V	290	12.57	42.60
5	7236.00	44.75 AV	54.00	-9.25	1.00 V	290	2.15	42.60

- 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	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	41.77 PK	74.00	-32.23	1.21 H	22	11.97	29.80
1	2016.00	33.91 AV	54.00	-20.09	1.21 H	22	4.11	29.80
2	*2437.00	105.89 PK			1.05 H	38	74.37	31.52
2	*2437.00	97.88 AV			1.05 H	38	66.36	31.52
3	4874.00	48.86 PK	74.00	-25.14	1.09 H	311	11.91	36.95
3	4874.00	36.01 AV	54.00	-17.99	1.09 H	311	-0.94	36.95
4	7311.00	57.62 PK	74.00	-16.38	1.07 H	46	14.82	42.80
4	7311.00	46.09 AV	54.00	-7.91	1.07 H	46	3.29	42.80

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	2016.00	40.12 PK	74.00	-33.88	1.49 V	52	10.32	29.80
2	*2437.00	100.89 PK			1.56 V	61	69.37	31.52
2	*2437.00	92.97 AV			1.56 V	61	61.45	31.52
3	4874.00	47.55 PK	74.00	-26.45	1.47 V	328	10.60	36.95
4	7311.00	55.98 PK	74.00	-18.02	1.11 V	245	13.18	42.80
4	7311.00	46.35 AV	54.00	-7.65	1.11 V	245	3.55	42.80

- 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	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	42.12 PK	74.00	-31.88	1.21 H	245	12.32	29.80
2	*2462.00	105.95 PK			1.05 H	45	74.32	31.63
2	*2462.00	97.99 AV			1.05 H	45	66.36	31.63
3	2498.00	49.95 PK	74.00	-24.05	1.05 H	45	18.17	31.78
3	2498.00	41.99 AV	54.00	-12.01	1.05 H	45	10.21	31.78
4	4924.00	48.32 PK	74.00	-25.68	1.03 H	37	11.22	37.10
5	7386.00	57.48 PK	74.00	-16.52	1.38 H	42	14.52	42.96
5	7386.00	45.89 AV	54.00	-8.11	1.38 H	42	2.93	42.96

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	2016.00	40.12 PK	74.00	-33.88	1.35 V	69	10.32	29.80
2	*2462.00	99.02 PK			1.05 V	325	67.39	31.63
2	*2462.00	91.05 AV			1.05 V	325	59.42	31.63
3	2498.00	43.02 PK	74.00	-30.98	1.49 V	325	11.24	31.78
3	2498.00	35.05 AV	54.00	-18.95	1.49 V	325	3.27	31.78
4	4924.00	47.02 PK	74.00	-26.98	1.31 V	254	9.92	37.10
5	7386.00	55.36 PK	74.00	-18.64	1.09 V	341	12.40	42.96
5	7386.00	45.75 AV	54.00	-8.25	1.09 V	341	2.79	42.96

- 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

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	41.96 PK	74.00	-32.04	1.16 H	26	12.16	29.80
2	2390.00	65.77 PK	74.00	-8.23	1.49 H	28	34.45	31.32
2	2390.00	49.60 AV	54.00	-4.40	1.49 H	28	18.28	31.32
3	*2412.00	104.03 PK			1.52 H	28	72.62	31.41
3	*2412.00	93.60 AV			1.52 H	28	62.19	31.41
4	4824.00	47.99 PK	74.00	-26.01	1.54 H	317	11.18	36.81
4	4824.00	34.84 AV	54.00	-19.16	1.54 H	317	-1.97	36.81
5	7236.00	53.35 PK	74.00	-20.65	1.50 H	33	10.75	42.60
5	7236.00	40.17 AV	54.00	-13.83	1.50 H	33	-2.43	42.60

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	2016.00	39.57 PK	74.00	-34.43	1.65 V	325	9.77	29.80
2	2390.00	60.24 PK	74.00	-13.76	1.52 V	45	28.92	31.32
2	2390.00	43.84 AV	54.00	-10.16	1.52 V	45	12.52	31.32
3	*2412.00	95.71 PK			1.52 V	45	64.30	31.41
3	*2412.00	86.10 AV			1.52 V	45	54.69	31.41
4	4824.00	46.85 PK	74.00	-27.15	1.58 V	319	10.04	36.81
5	7236.00	52.13 PK	74.00	-21.87	1.78 V	325	9.53	42.60
5	7236.00	39.24 AV	54.00	-14.76	1.78 V	325	-3.36	42.60

- 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	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	42.01 PK	74.00	-31.99	1.22 H	225	12.21	29.80
2	2437.00	105.09 PK	74.00	31.09	1.23 H	33	73.57	31.52
2	2437.00	94.77 AV	54.00	40.77	1.23 H	33	63.25	31.52
3	4874.00	48.25 PK	74.00	-25.75	1.25 H	324	11.30	36.95
4	7311.00	53.12 PK	74.00	-20.88	1.36 H	324	10.32	42.80
4	7311.00	40.11 AV	54.00	-13.89	1.36 H	324	-2.69	42.80

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	2016.00	39.78 PK	74.00	-34.22	1.68 V	345	9.98	29.80
2	*2437.00	96.85 PK			1.20 V	33	65.33	31.52
2	*2437.00	86.77 AV			1.20 V	33	55.25	31.52
3	4874.00	46.95 PK	74.00	-27.05	1.57 V	352	10.00	36.95
4	7311.00	52.05 PK	74.00	-21.95	1.65 V	325	9.25	42.80
4	7311.00	39.16 AV	54.00	-14.84	1.65 V	325	-3.64	42.80

- 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	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	42.43 PK	74.00	-31.57	1.19 H	213	12.10	30.33
2	*2462.00	103.44 PK			1.90 H	228	71.28	32.16
2	*2462.00	93.39 AV			1.90 H	228	61.23	32.16
3	2483.50	58.83 PK	74.00	-15.17	1.90 H	228	26.59	32.24
3	2483.50	48.78 AV	54.00	-5.22	1.90 H	228	16.54	32.24
4	4924.00	48.09 PK	74.00	-25.91	1.20 H	215	9.95	38.14
5	7386.00	54.28 PK	74.00	-19.72	1.11 H	159	9.60	44.68
5	7386.00	42.15 AV	54.00	-11.85	1.11 H	159	-2.53	44.68

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	2016.00	40.32 PK	74.00	-33.68	1.12 V	213	9.99	30.33
2	*2462.00	97.49 PK			1.56 V	239	65.33	32.16
2	*2462.00	87.55 AV			1.56 V	239	55.39	32.16
3	2483.50	52.88 PK	74.00	-21.12	1.56 V	239	20.64	32.24
3	2483.50	42.94 AV	54.00	-11.06	1.56 V	239	10.70	32.24
4	4924.00	47.93 PK	74.00	-26.07	1.27 V	251	9.79	38.14
5	7386.00	53.61 PK	74.00	-20.39	1.21 V	195	8.93	44.68
5	7386.00	41.57 AV	54.00	-12.43	1.21 V	195	-3.11	44.68

- 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 Turbo OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MEASUREMENT DETAIL	
MODEL	SMCWUSBT-G	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TRANSFER RATE	12Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Morgan Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2016.00	41.98 PK	74.00	-32.02	1.24 H	335	12.18	29.80
2	2390.00	59.55 PK	74.00	-14.45	1.45 H	120	28.23	31.32
2	2390.00	49.68 AV	54.00	-4.32	1.45 H	120	18.36	31.32
3	*2437.00	102.25 PK			1.45 H	20	70.73	31.52
3	*2437.00	92.38 AV			1.45 H	20	60.86	31.52
4	2483.50	58.65 PK	74.00	-15.35	1.45 H	120	26.93	31.72
4	2483.50	48.78 AV	54.00	-5.22	1.45 H	120	17.06	31.72
5	4874.00	48.12 PK	74.00	-25.88	1.28 H	319	11.17	36.95
6	7311.00	53.08 PK	74.00	-20.92	1.34 H	254	10.28	42.80
6	7311.00	40.02 AV	54.00	-13.98	1.34 H	254	-2.78	42.80

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	2016.00	39.67 PK	74.00	-34.33	1.68 V	324	9.87	29.80
2	2390.00	51.08 PK	74.00	-22.92	1.54 V	321	19.76	31.32
2	2390.00	41.15 AV	54.00	-12.85	1.54 V	321	9.83	31.32
3	*2437.00	93.78 PK			1.54 V	321	62.26	31.52
3	*2437.00	83.85 AV			1.54 V	321	52.33	31.52
4	2483.50	50.14 PK	74.00	-23.86	1.54 V	321	18.42	31.72
4	2483.50	40.21 AV	54.00	-13.79	1.54 V	321	8.49	31.72
5	4874.00	46.55 PK	74.00	-27.45	1.57 V	48	9.60	36.95
6	7311.00	52.01 PK	74.00	-21.99	1.55 V	315	9.21	42.80
6	7311.00	38.07 AV	54.00	-15.93	1.55 V	315	-4.73	42.80

- 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	FSEK 30	100049	Aug. 12, 2005

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

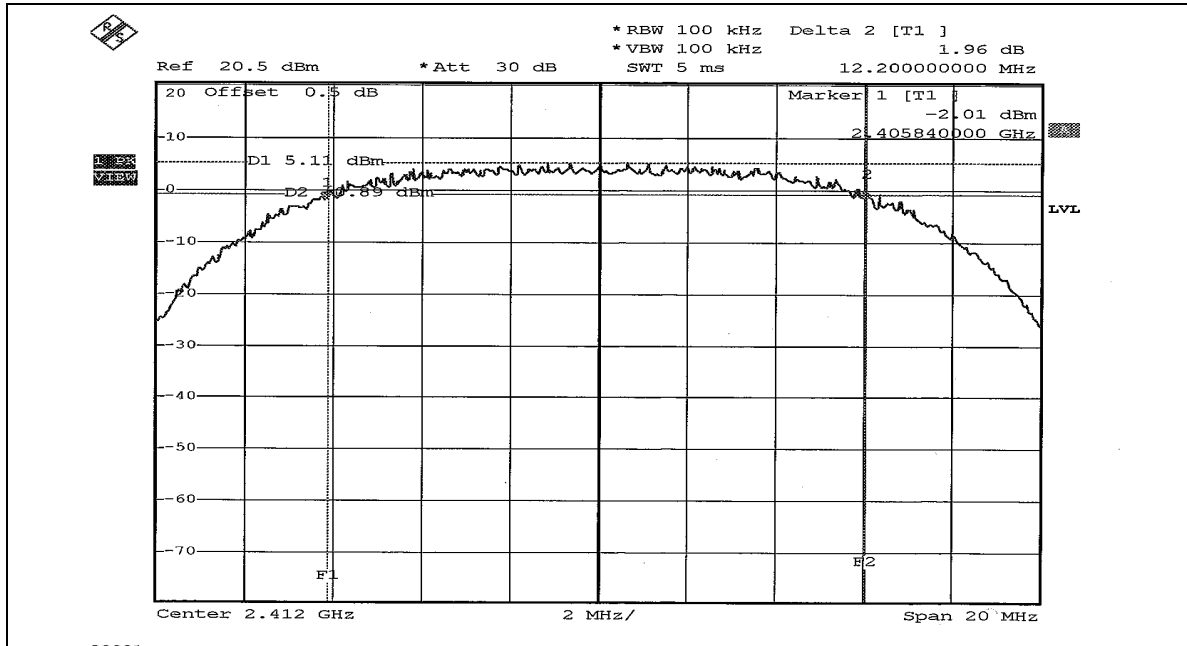
802.11b DSSS MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

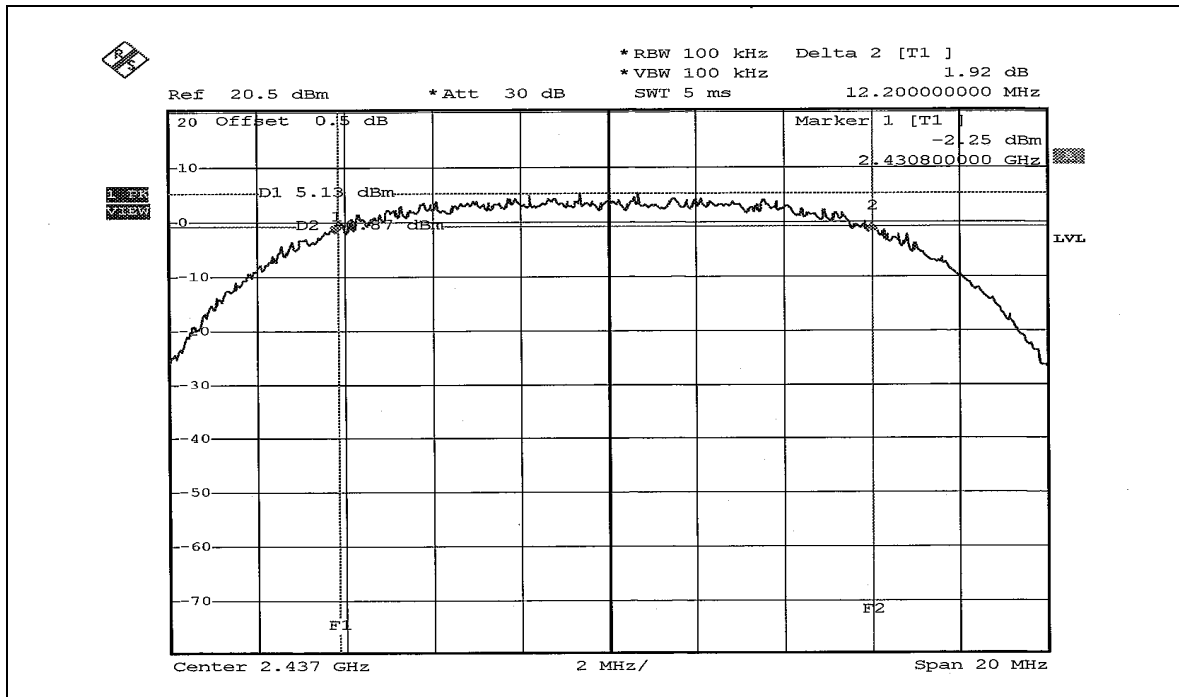
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.20	0.5	PASS
6	2437	12.20	0.5	PASS
11	2462	12.20	0.5	PASS



CH1

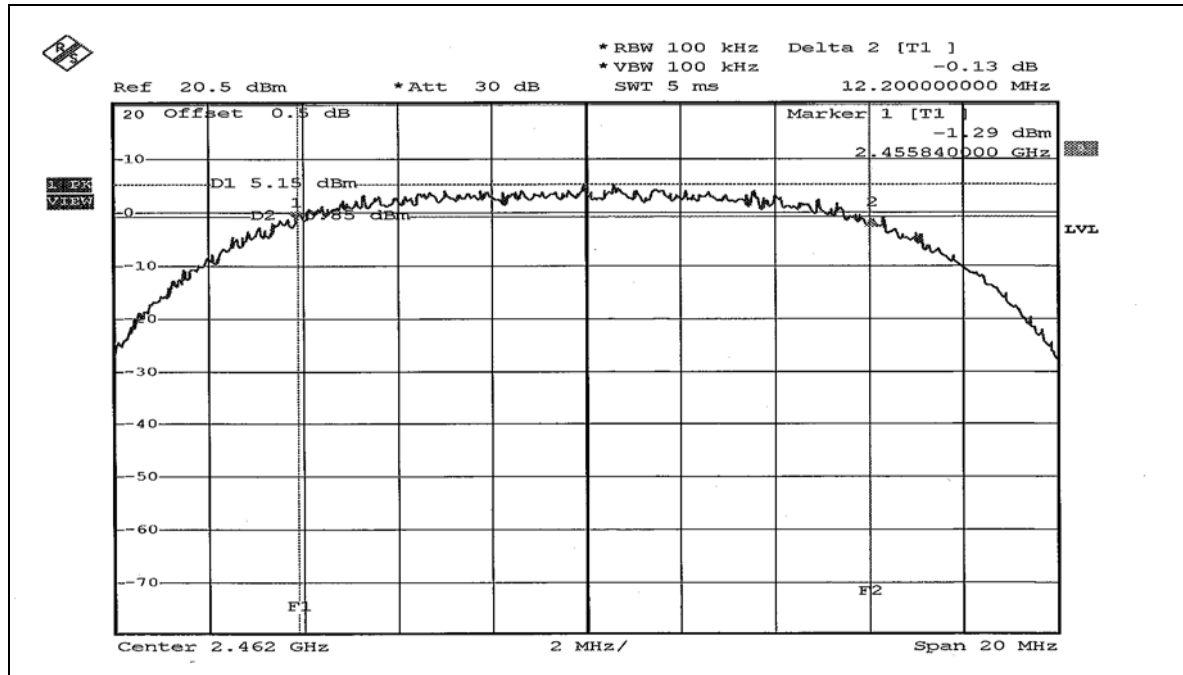


CH6





CH11





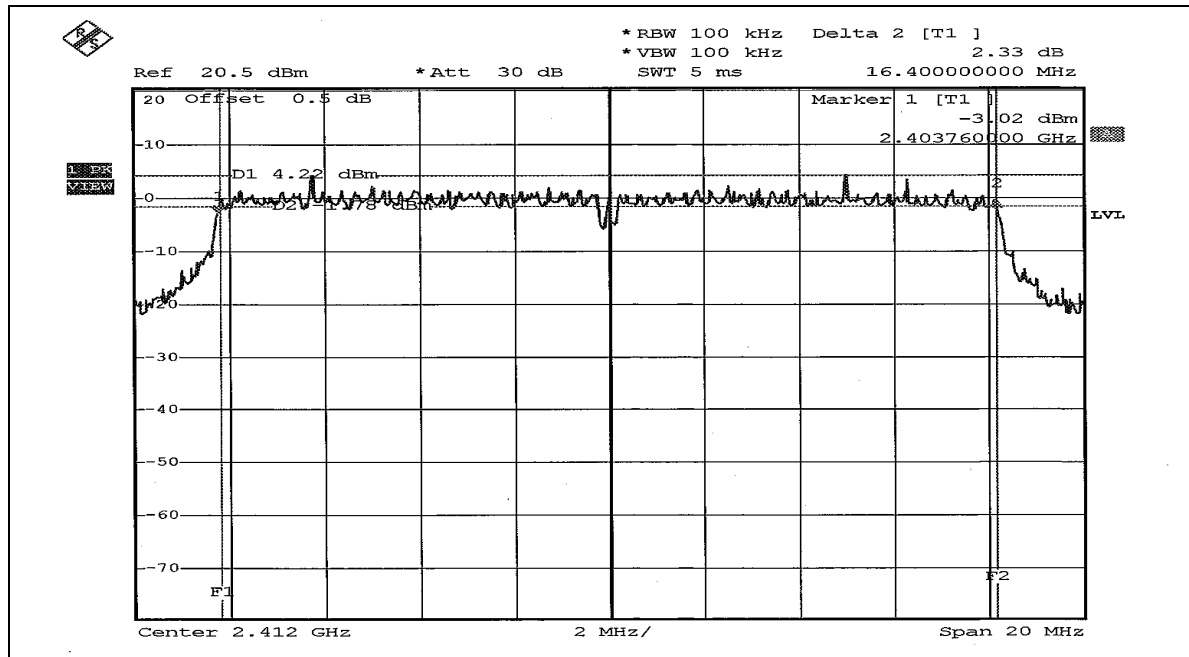
802.11g OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

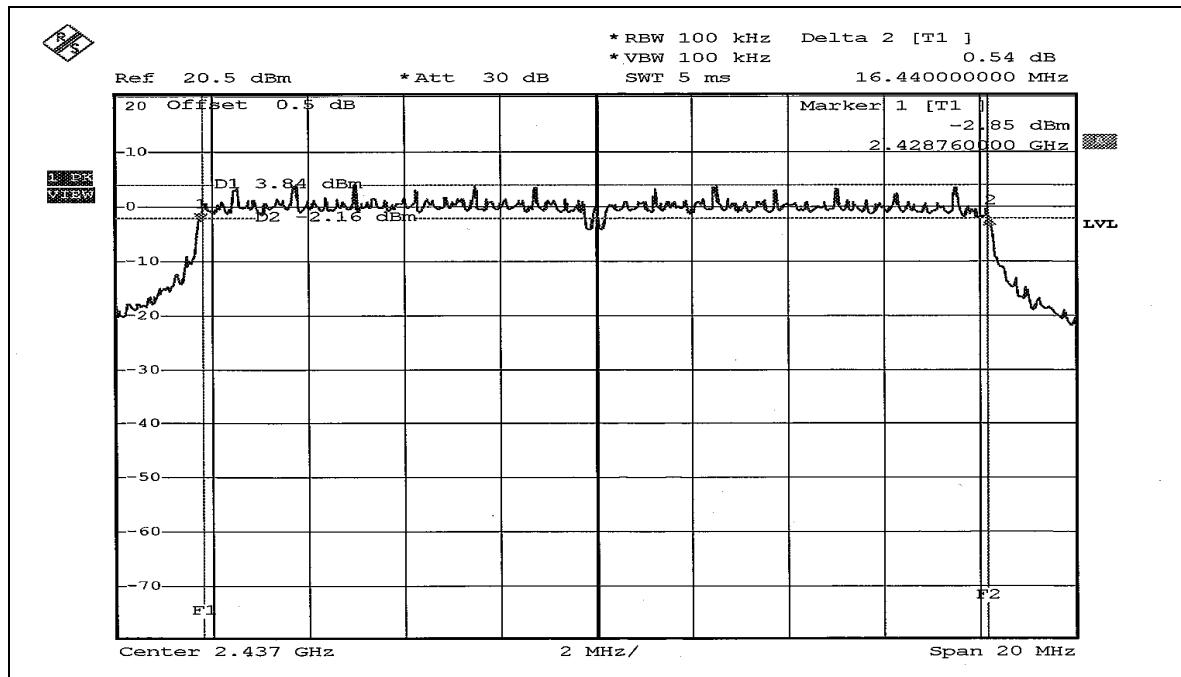
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.40	0.5	PASS
6	2437	16.44	0.5	PASS
11	2462	16.40	0.5	PASS



CH1

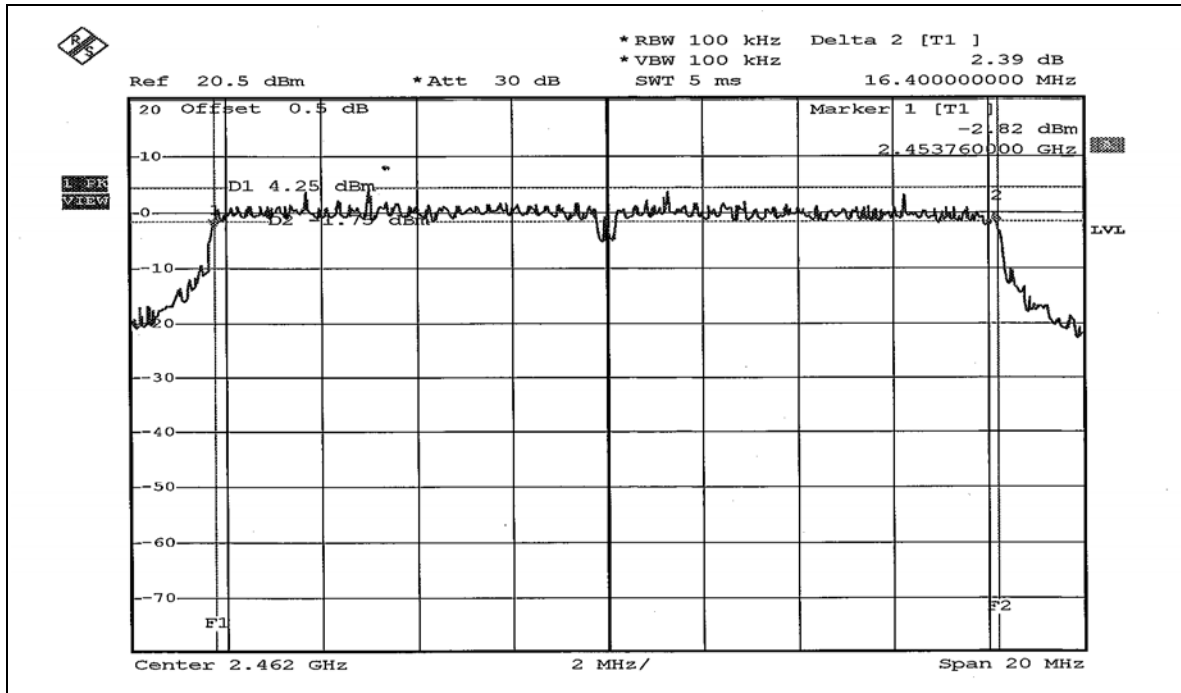


CH6





CH11





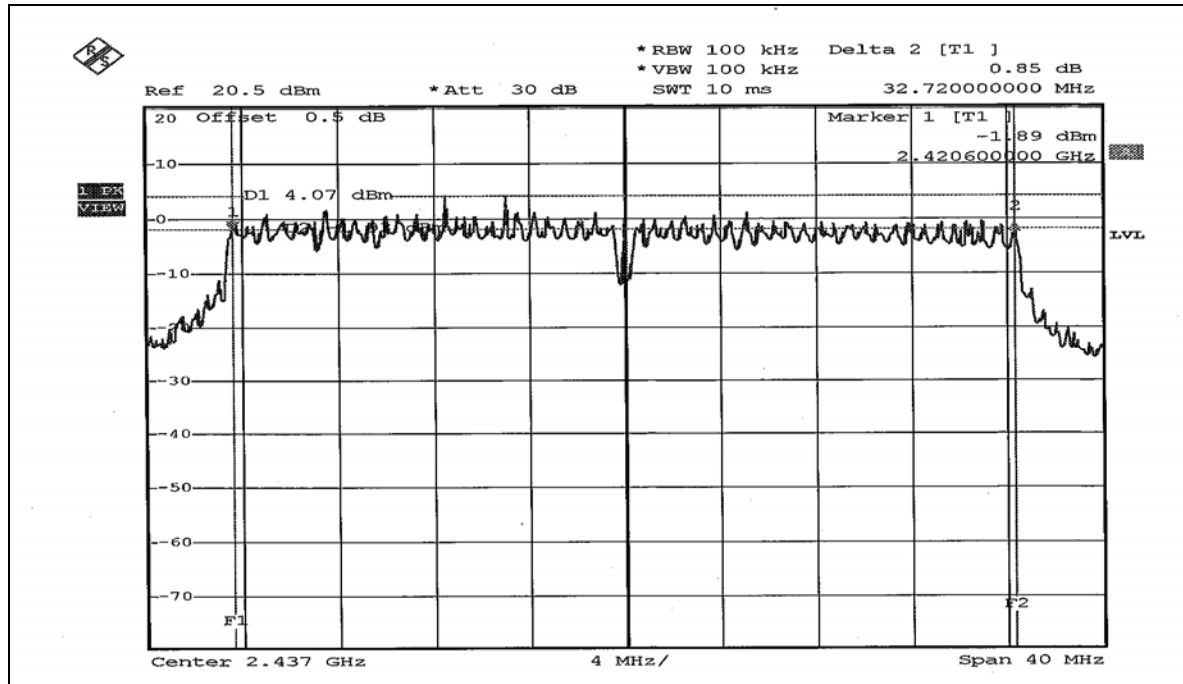
802.11g Turbo OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
6	2437	32.72	0.5	PASS



CH6





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 06, 2005
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Dec. 07, 2005
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

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.915	15.04	30	PASS
6	2437	31.769	15.02	30	PASS
11	2462	32.137	15.07	30	PASS

802.11g OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	32.285	15.09	30	PASS
6	2437	31.915	15.04	30	PASS
11	2462	32.063	15.06	30	PASS



802.11g Turbo OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	31.623	15.00	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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

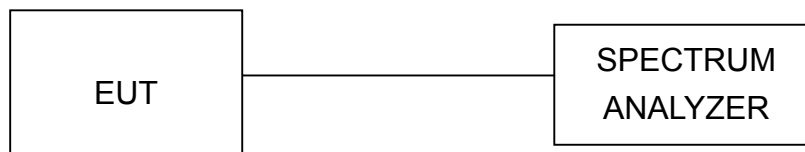
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

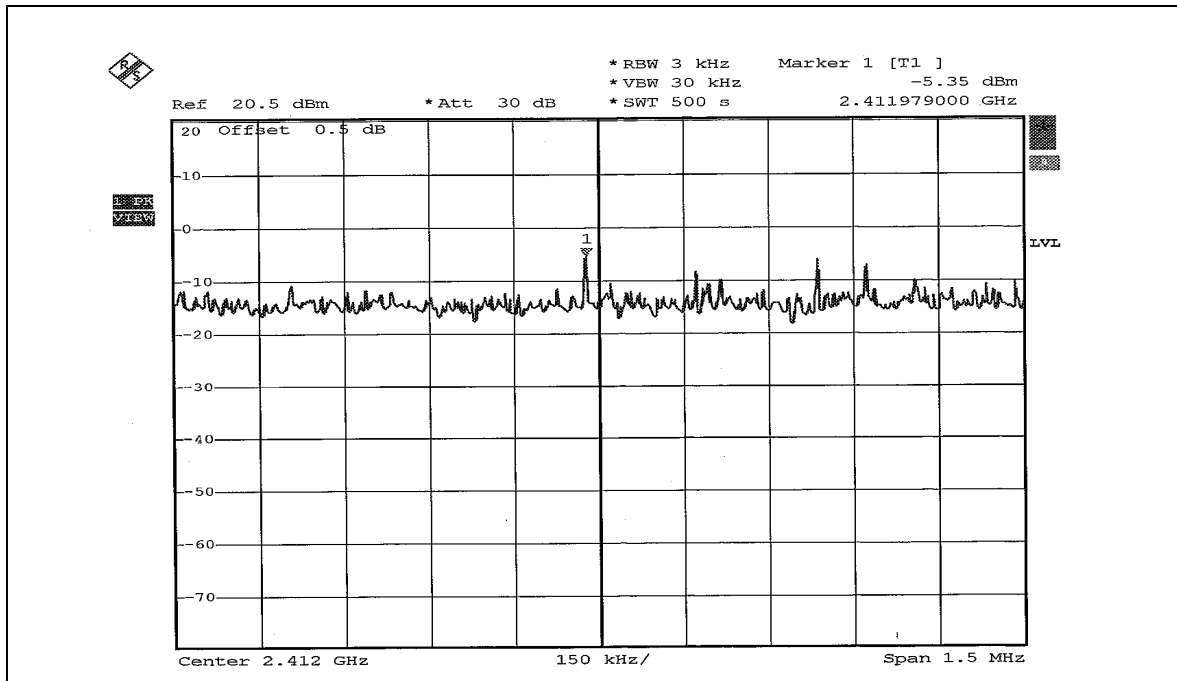
802.11b DSSS MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

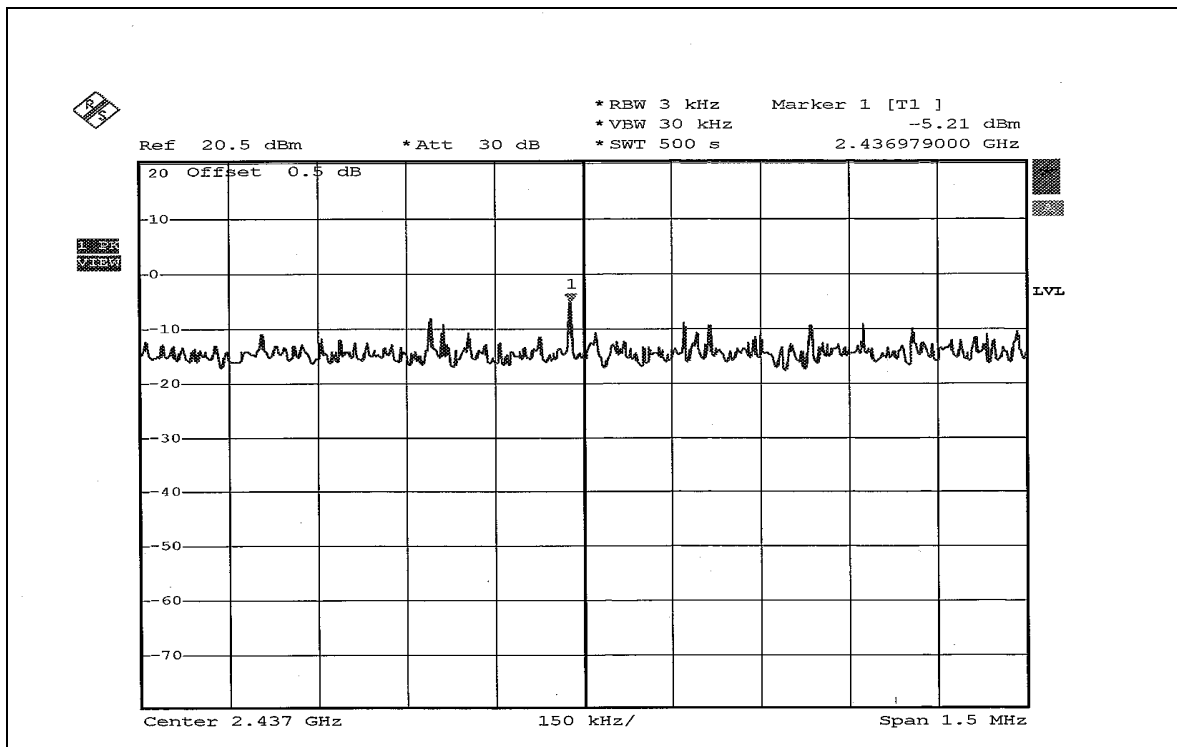
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-5.35	8	PASS
6	2437	-5.21	8	PASS
11	2462	-5.91	8	PASS



CH1

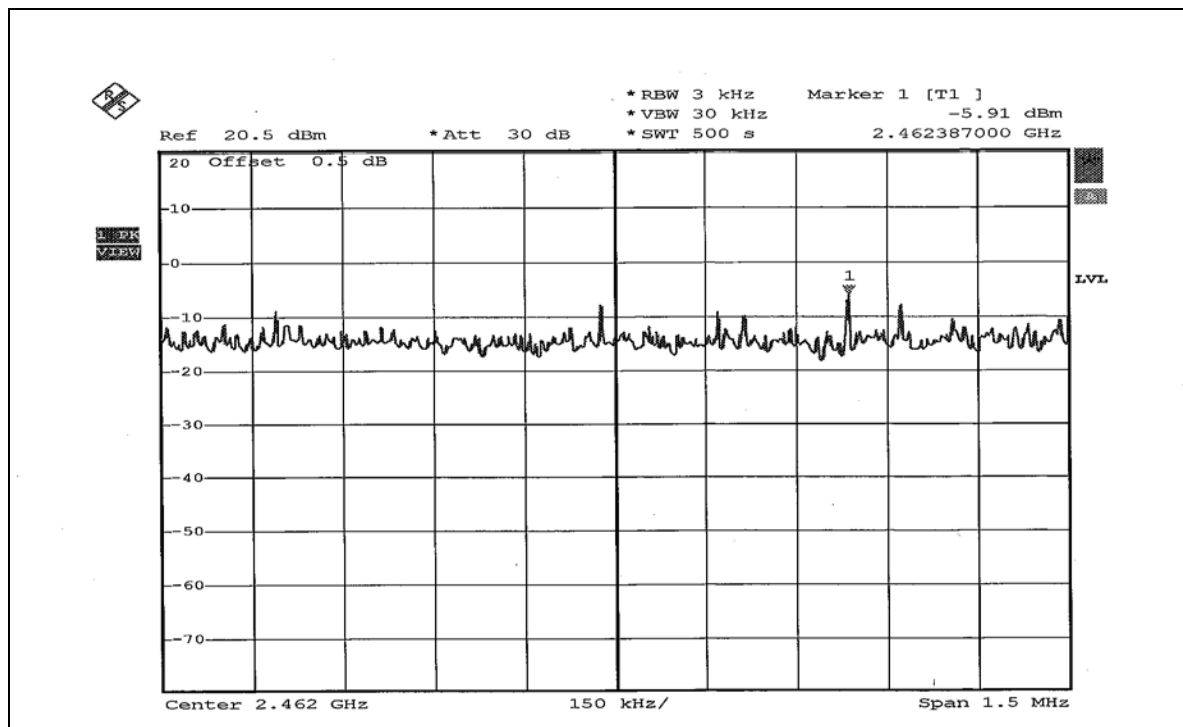


CH6





CH11





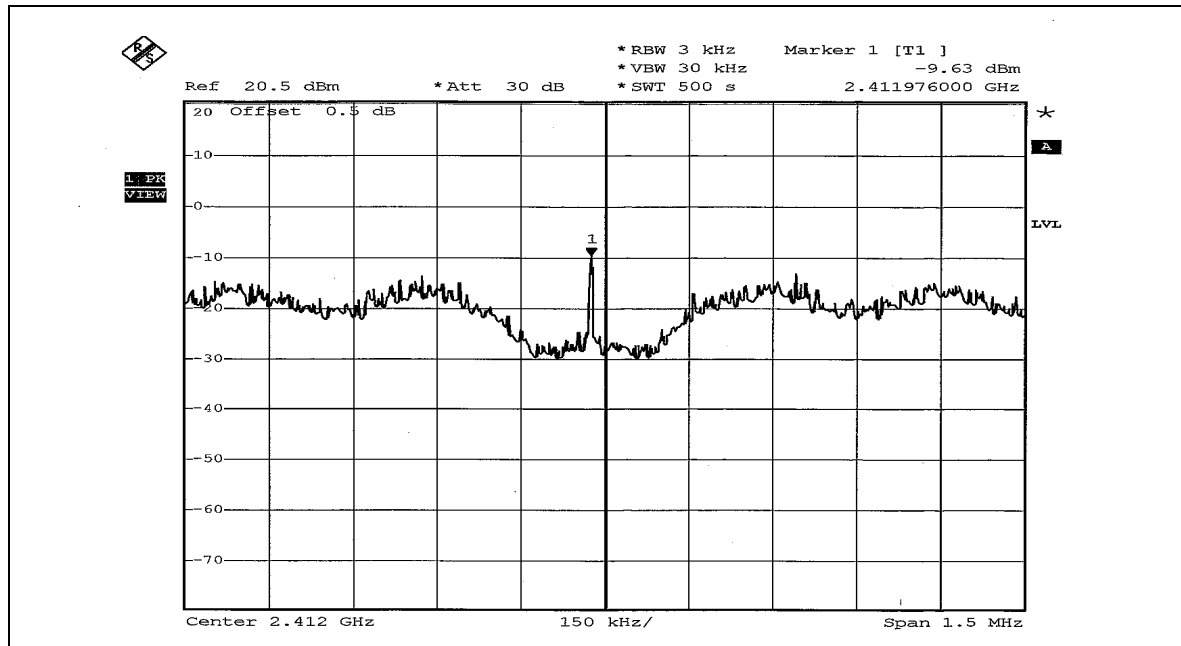
802.11g OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

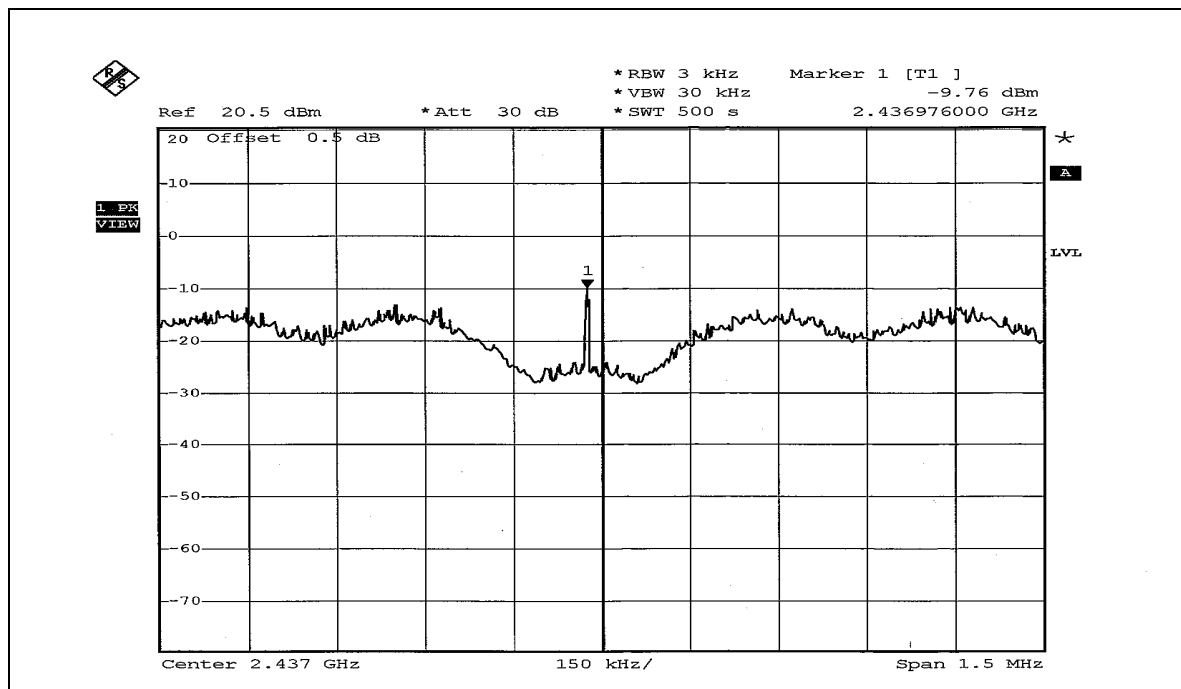
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-9.63	8	PASS
6	2437	-9.76	8	PASS
11	2462	-9.81	8	PASS



CH1

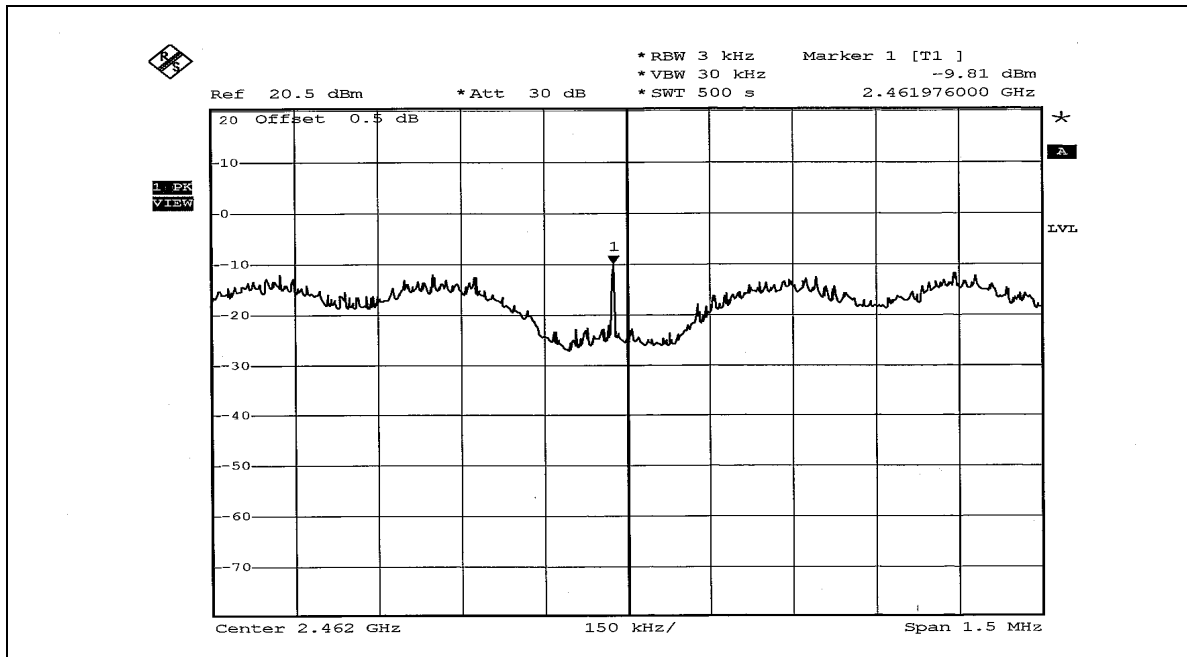


CH6





CH11





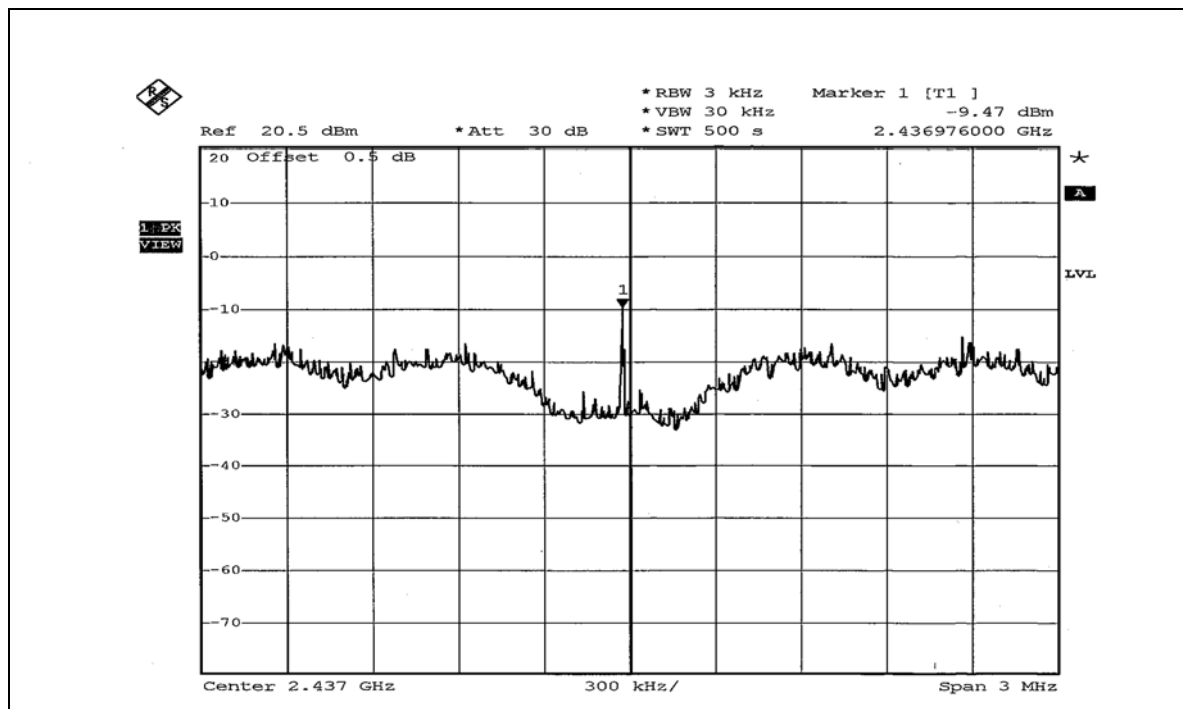
802.11g Turbo OFDM MODULATION

EUT	EZ Connect™ g 802.11g 108Mbps Wireless USB2.0 Adapter	MODEL	SMCWUSBT-G
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-9.47	8	PASS



CH6





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	FSEK30	100049	Aug. 12, 2005

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 and 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 12 images. D2 line indicates the highest level, and D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS MODULATION

NOTE 1:

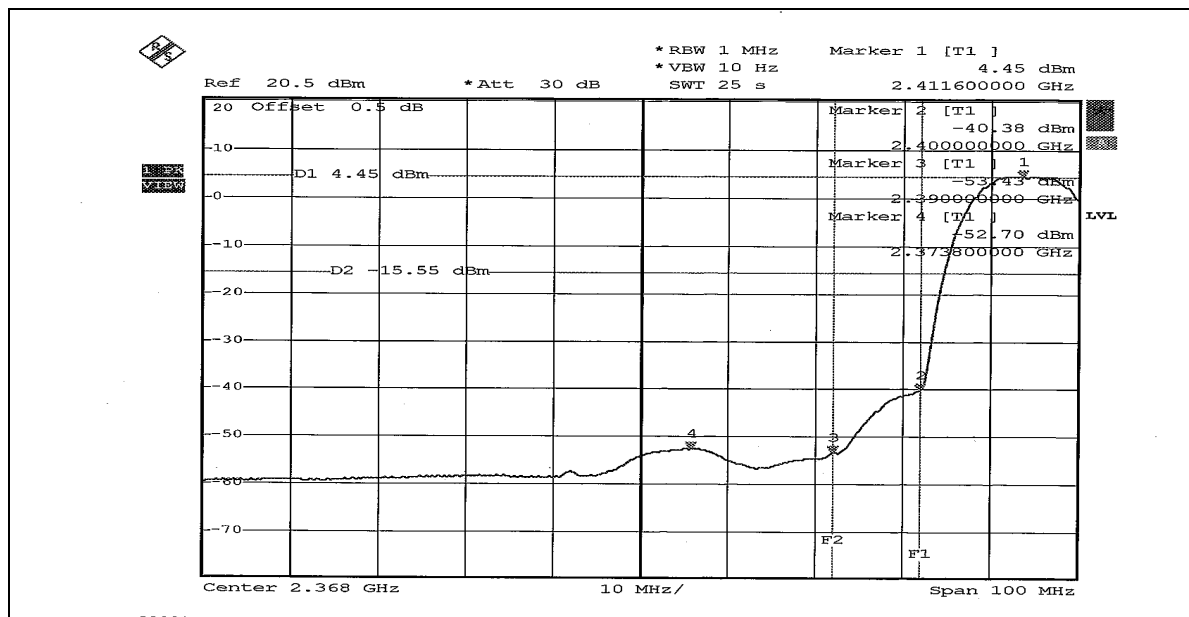
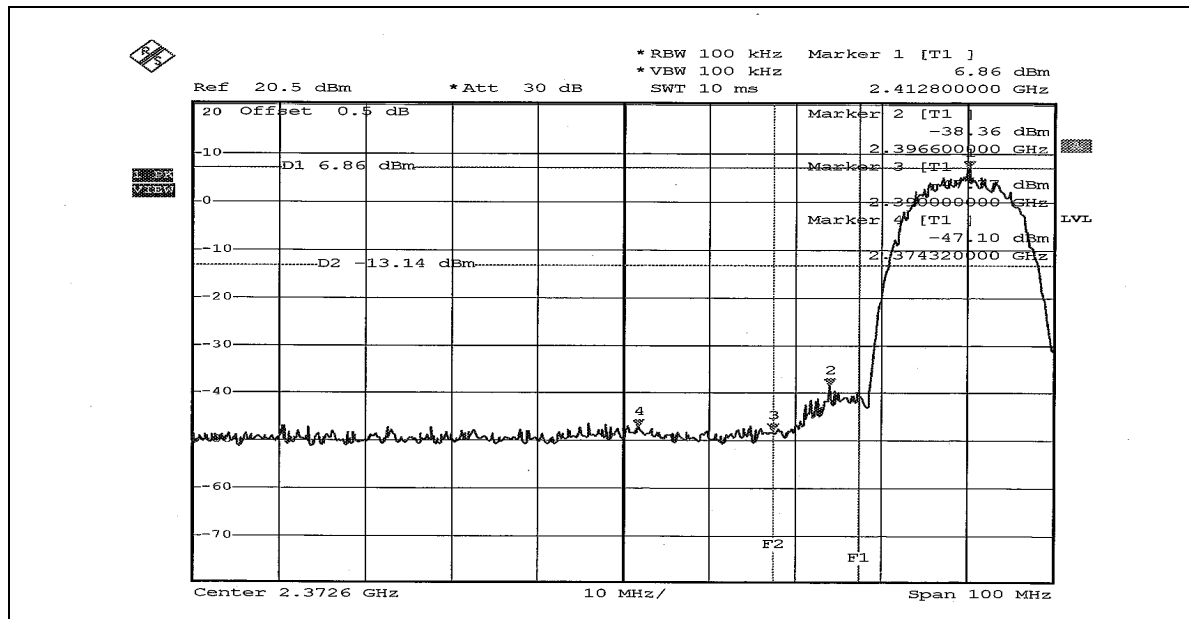
The band edge emission plot on page 58 show 53.96dBc delta between carrier maximum power and local maximum emission in restrict band (2.3743GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.75dBuV/m (Peak), so the maximum field strength in restrict band is $105.75 - 53.96 = 51.79$ dBuV/m, which is under 74dBuV/m limit.

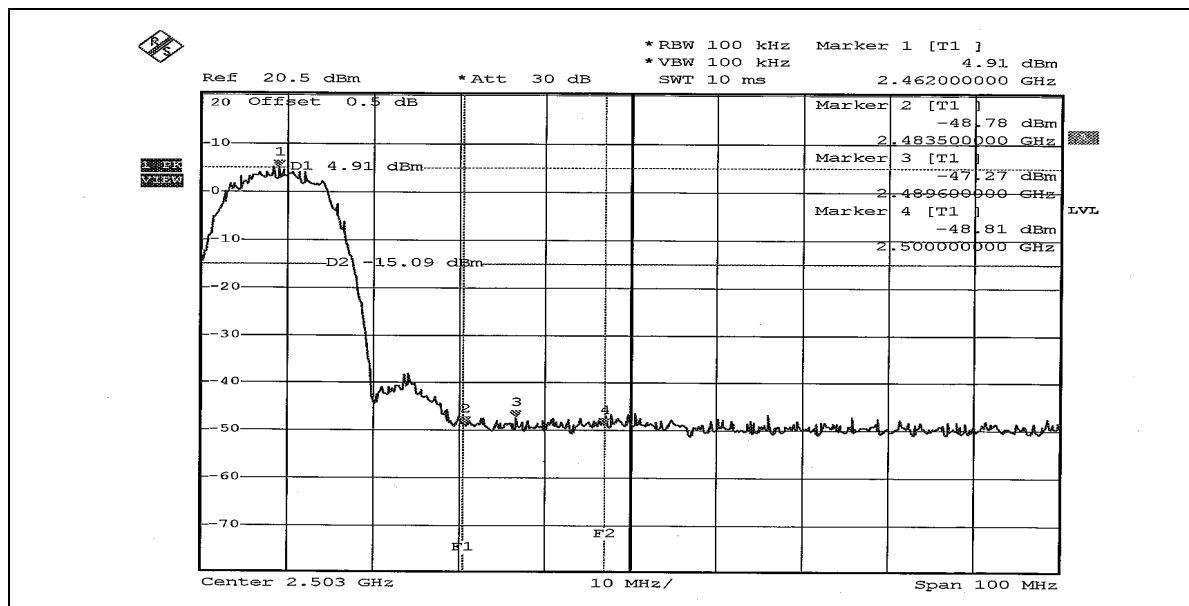
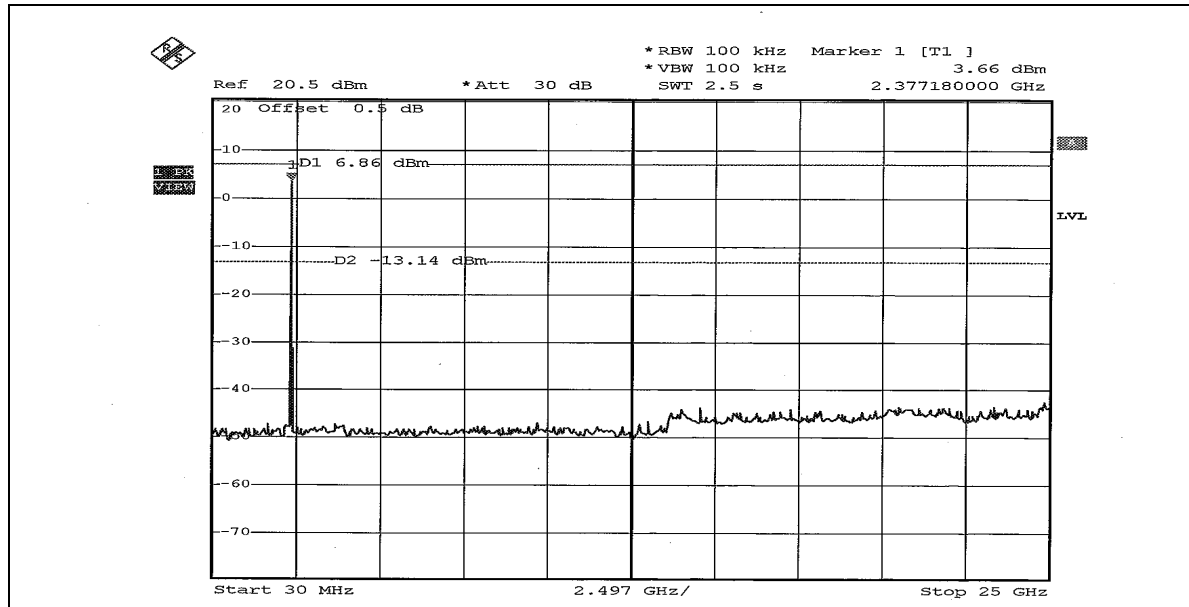
The band edge emission plot on page 58 show 57.15dBc delta between carrier maximum power and local maximum emission in restrict band (2.3738GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 97.54dBuV/m (Average), so the maximum field strength in restrict band is $97.54 - 57.15 = 40.39$ dBuV/m, which is under 54dBuV/m limit.

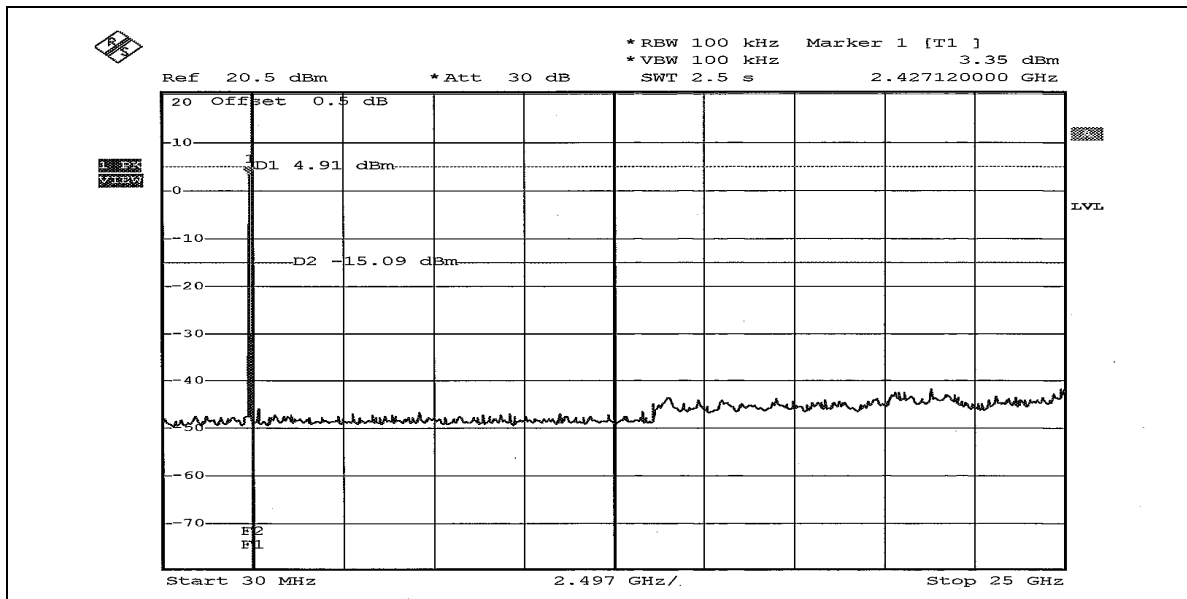
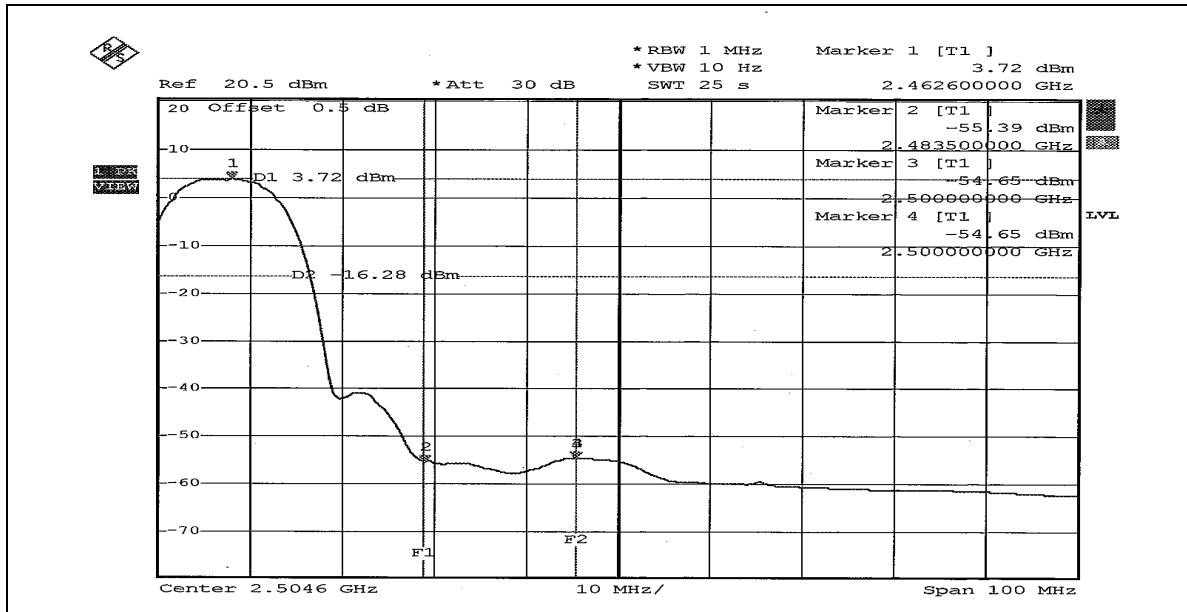
NOTE 2:

The band edge emission plot on the page 59 show 52.18dBc delta between carrier maximum power and local maximum emission in restrict band (2.4896GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.95dBuV/m (Peak), so the maximum field strength in restrict band is $105.95 - 52.18 = 53.77$ dBuV/m, which is under 74dBuV/m limit.

The band edge emission plot on the page 60 show 58.37dBc delta between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 97.99dBuV/m (Average), so the maximum field strength in restrict band is $97.99 - 58.37 = 39.62$ dBuV/m, which is under 54dBuV/m limit.









802.11g OFDM MODULATION

NOTE 1:

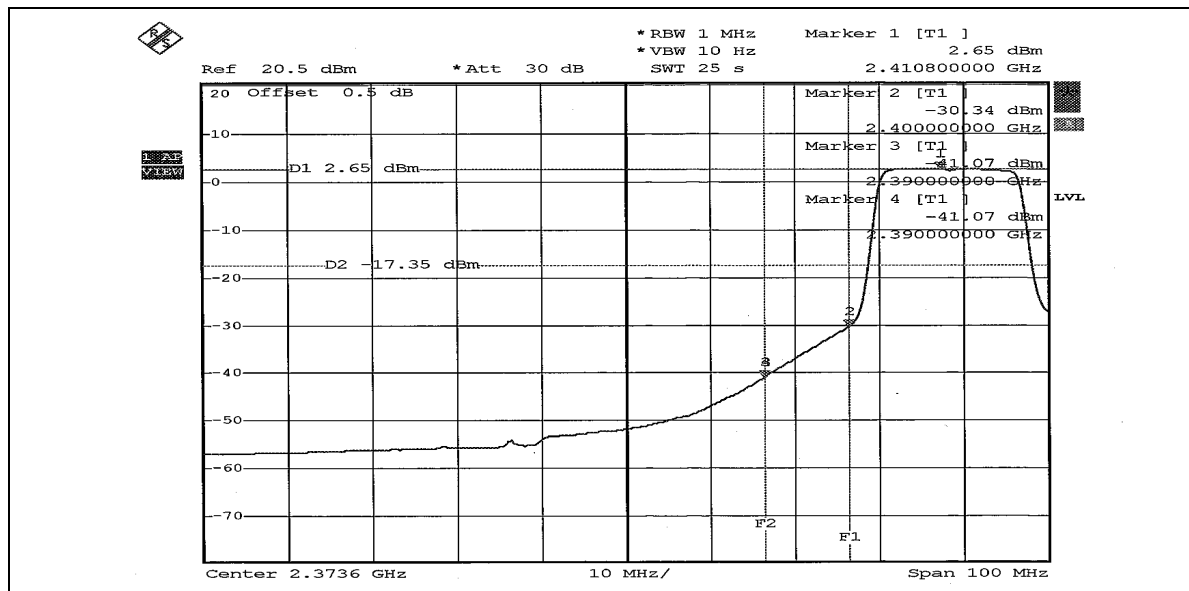
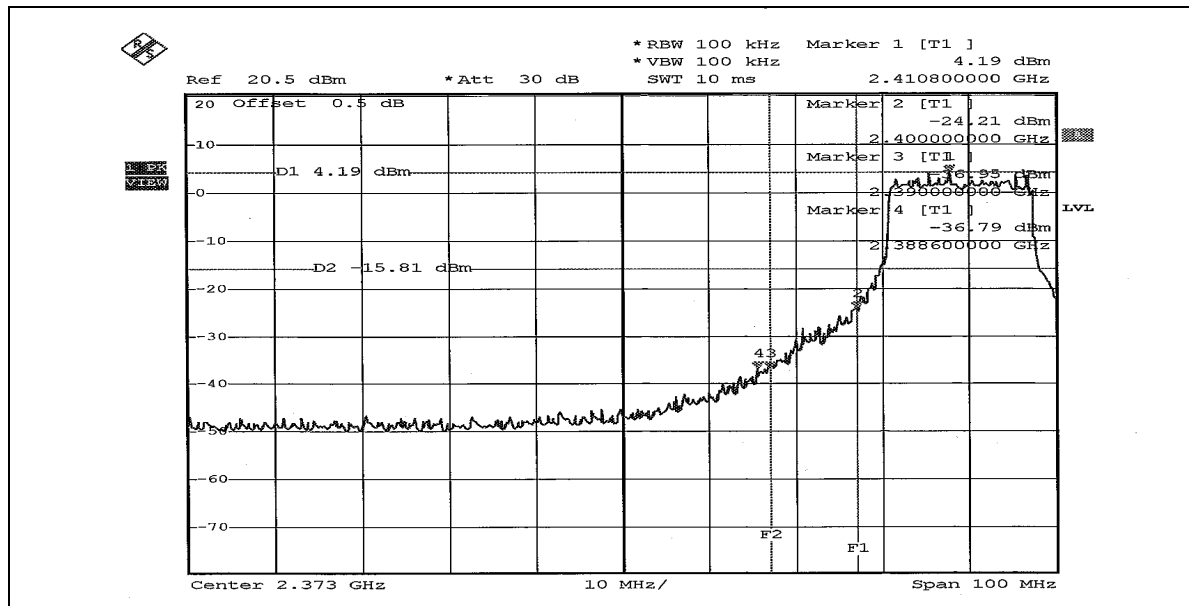
The band edge emission plot on page 62 show 40.98dBc delta between carrier maximum power and local maximum emission in restrict band (2.3886GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.03dBuV/m (Peak), so the maximum field strength in restrict band is $104.03 - 40.98 = 63.05$ dBuV/m, which is under 74dBuV/m limit.

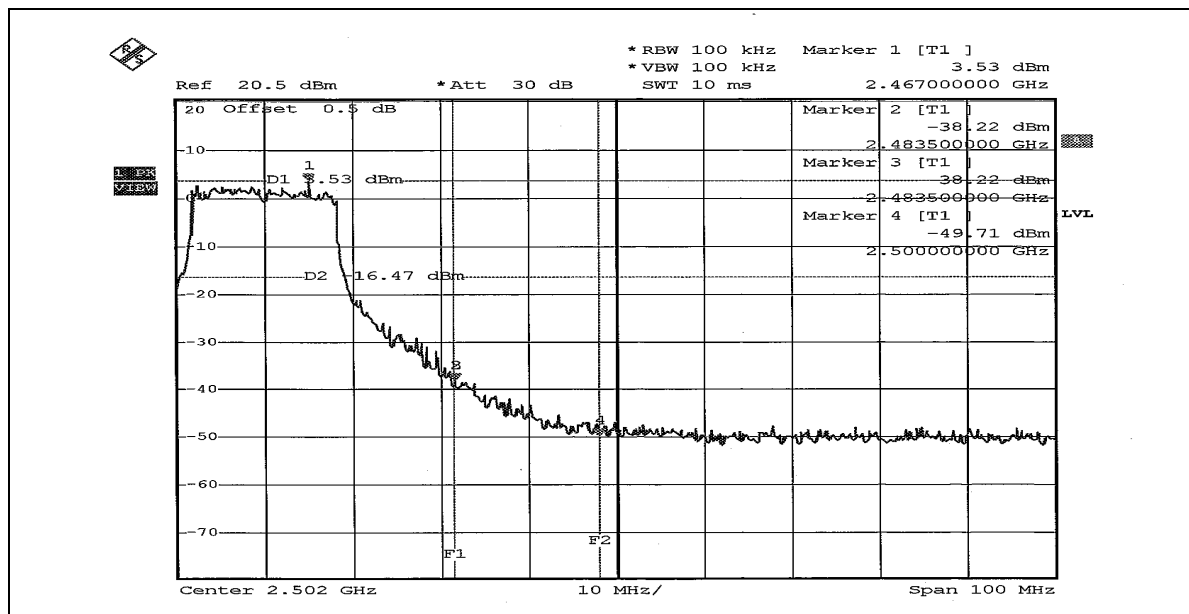
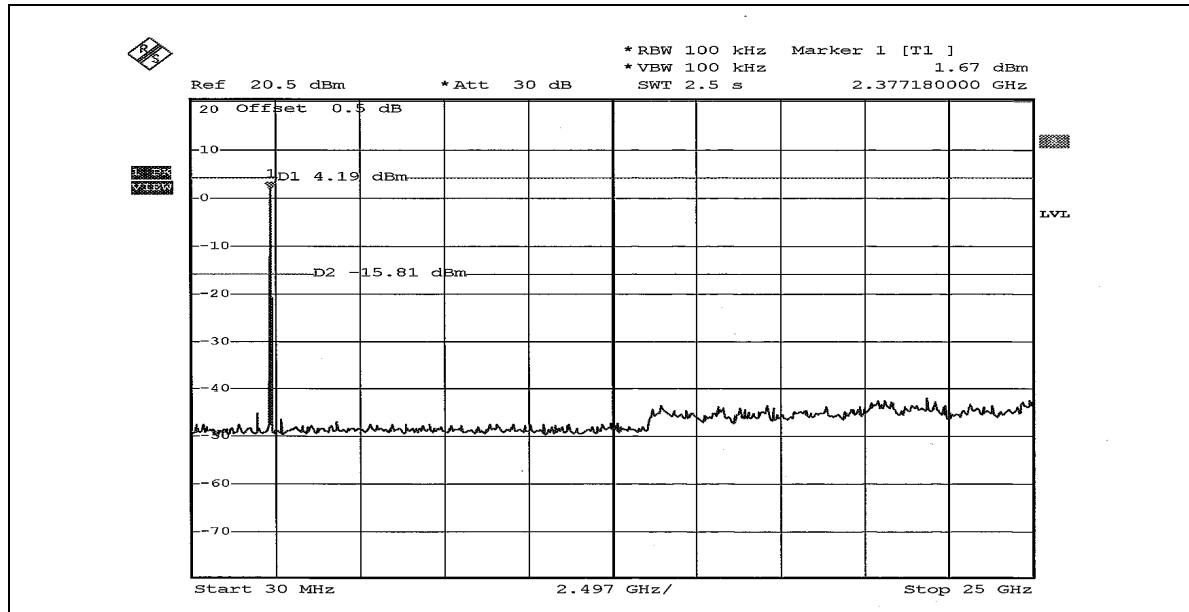
The band edge emission plot on page 62 show 43.72dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 93.60dBuV/m (Average), so the maximum field strength in restrict band is $93.60 - 43.72 = 49.88$ dBuV/m, which is under 54dBuV/m limit.

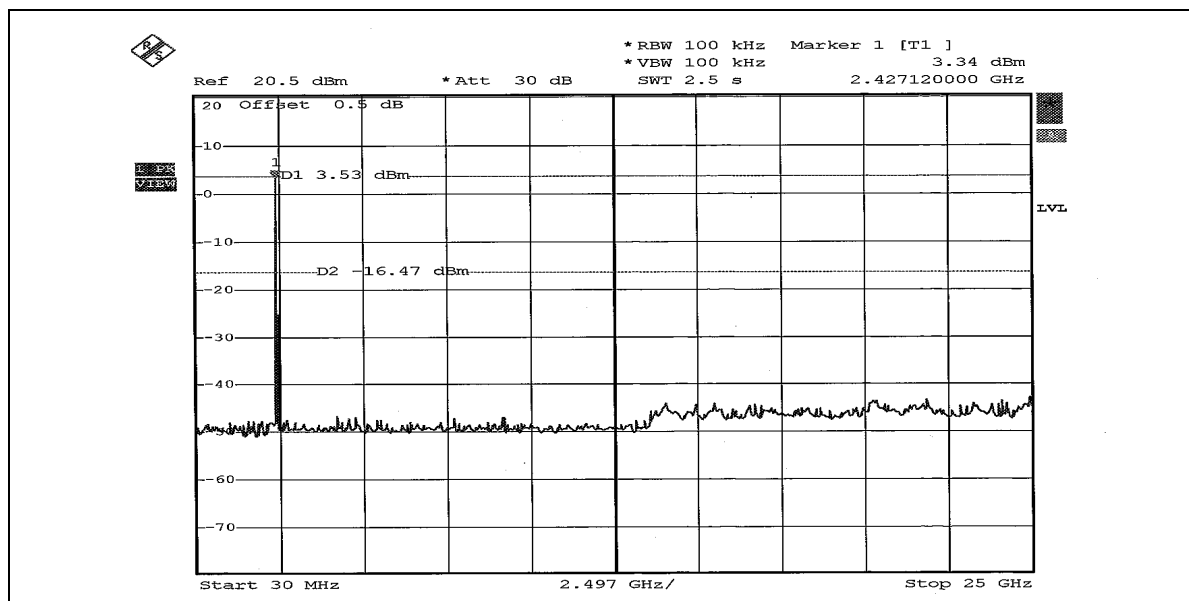
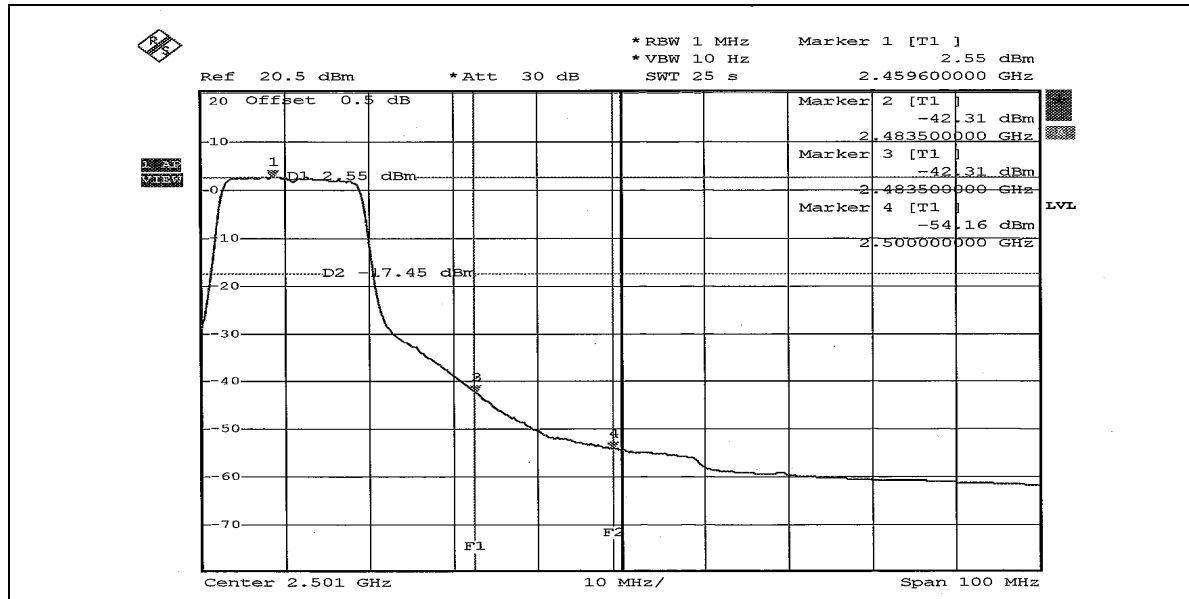
NOTE 2:

The band edge emission plot on the page 63 show 41.75dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.44dBuV/m (Peak), so the maximum field strength in restrict band is $103.44 - 41.75 = 61.69$ dBuV/m, which is under 74dBuV/m limit.

The band edge emission plot on the page 64 show 44.86dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 93.39dBuV/m (Average), so the maximum field strength in restrict band is $93.39 - 44.86 = 48.53$ dBuV/m, which is under 54dBuV/m limit.









802.11g Turbo OFDM MODULATION

NOTE 1:

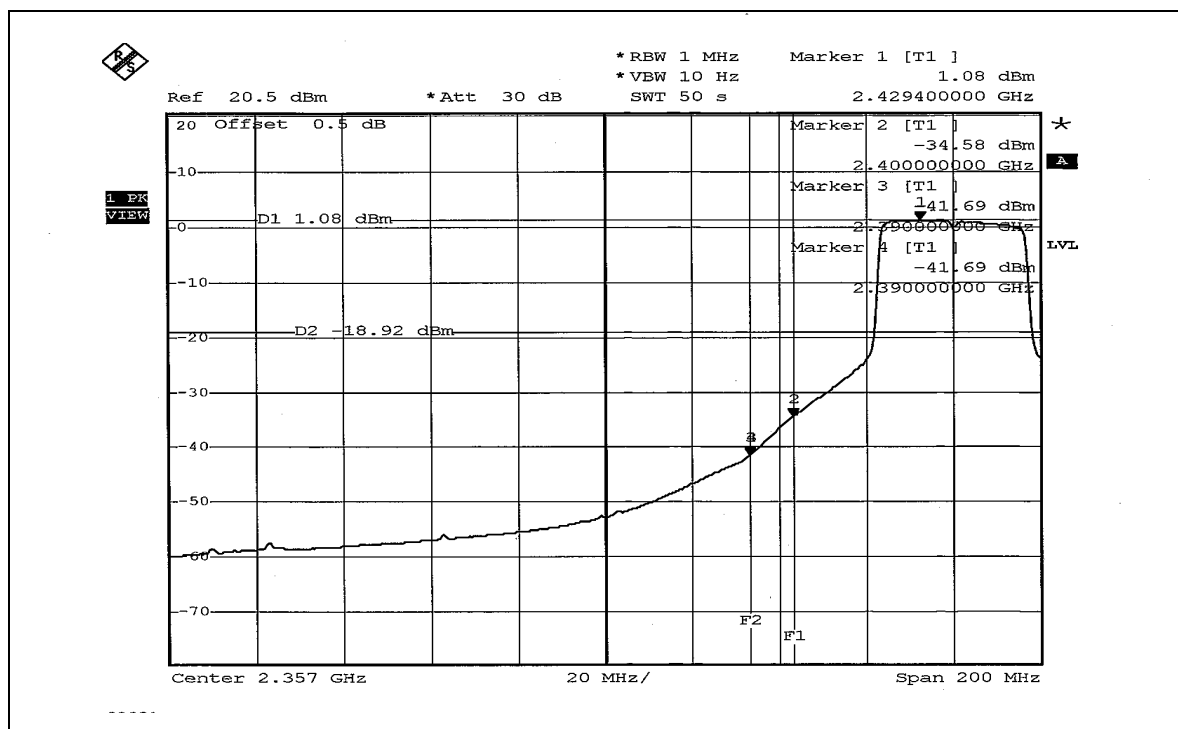
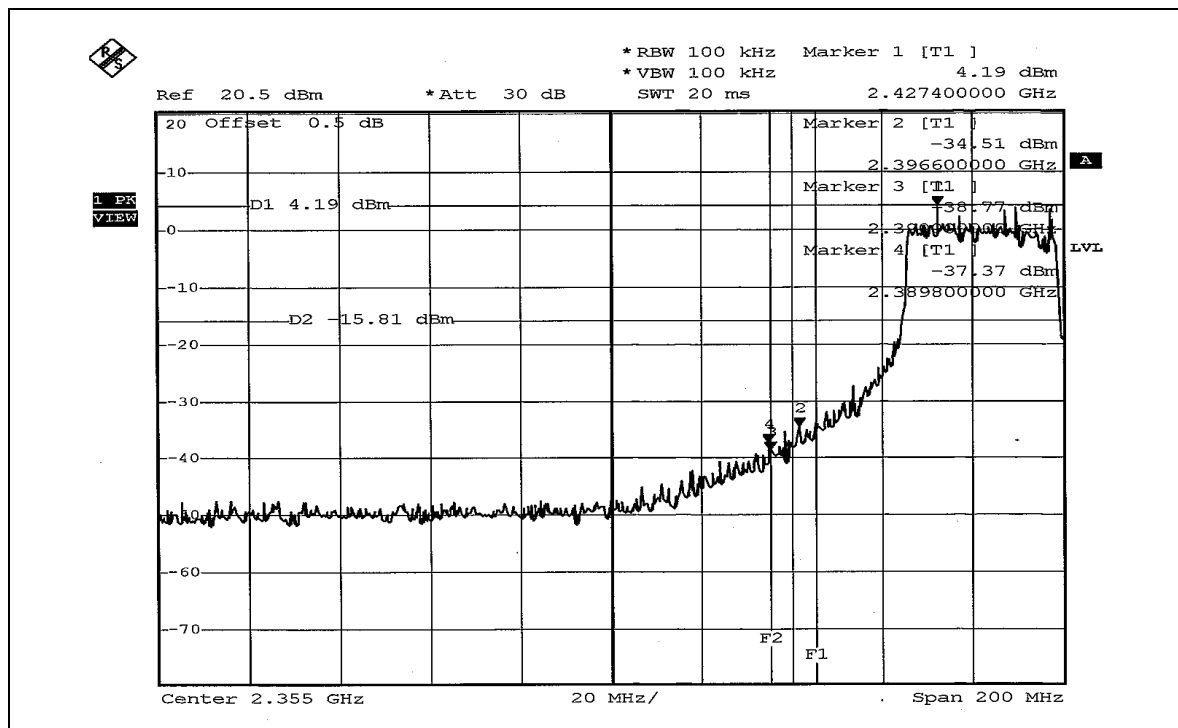
The band edge emission plot on page 66 show 41.56dBc delta between carrier maximum power and local maximum emission in restrict band (2.3898GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.25dBuV/m (Peak), so the maximum field strength in restrict band is $102.25 - 41.56 = 60.69$ dBuV/m, which is under 74dBuV/m limit.

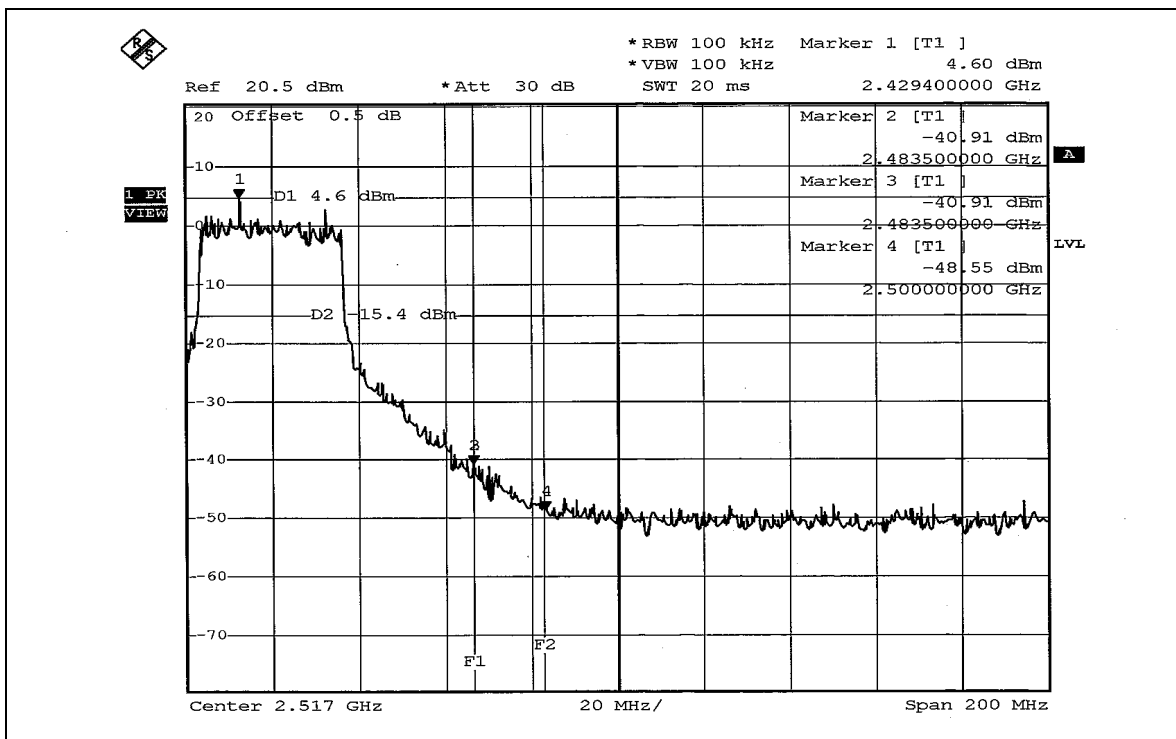
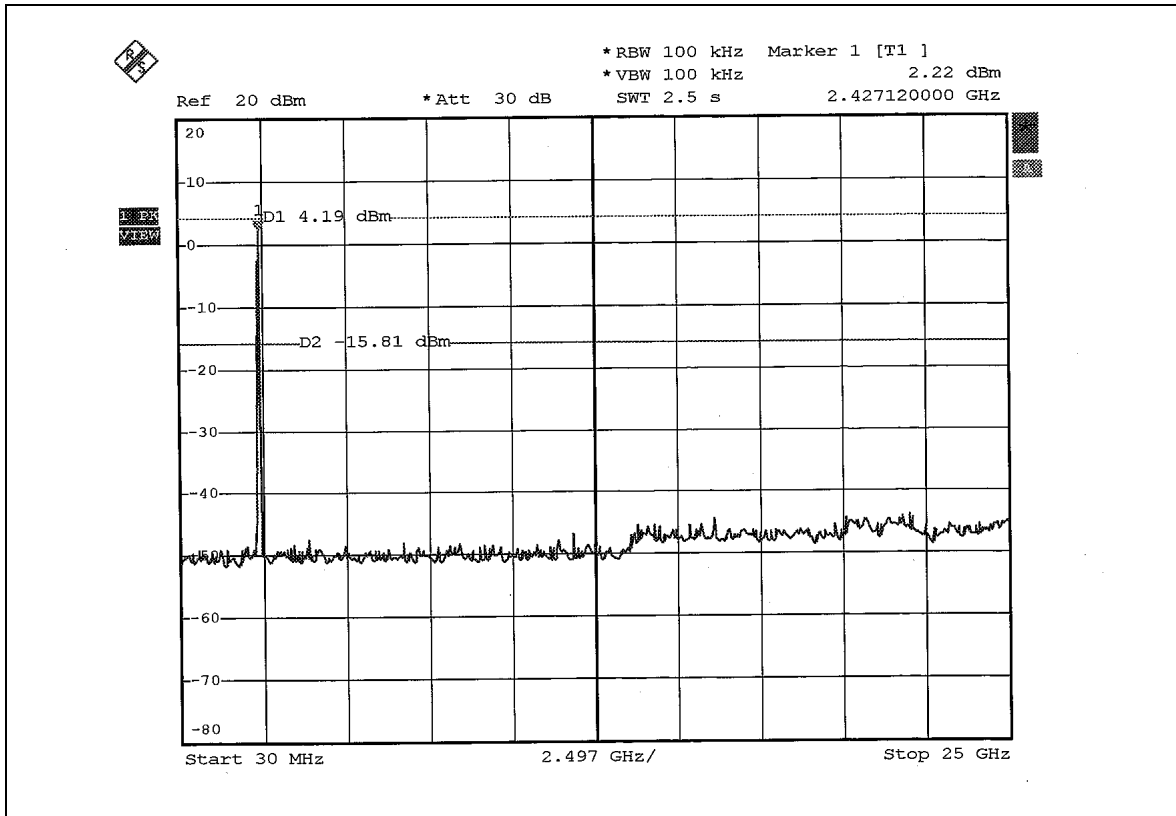
The band edge emission plot on page 66 show 42.77dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 92.38dBuV/m (Average), so the maximum field strength in restrict band is $92.38 - 42.77 = 49.61$ dBuV/m, which is under 54dBuV/m limit.

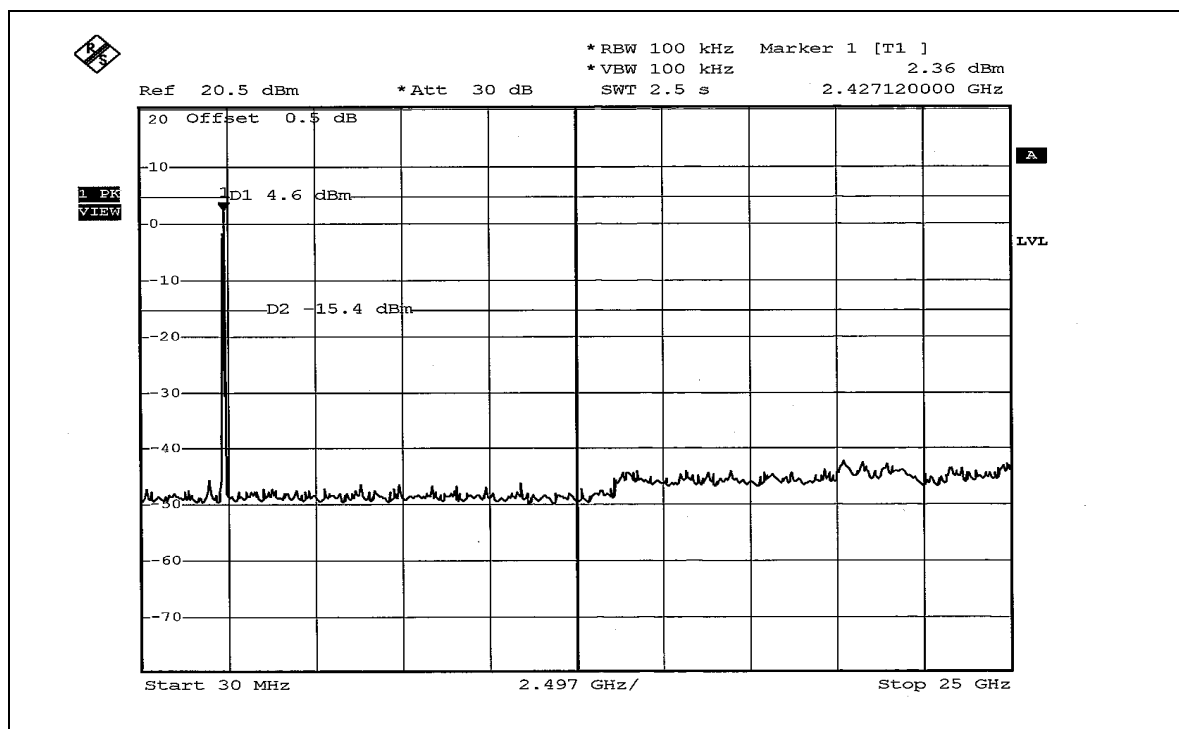
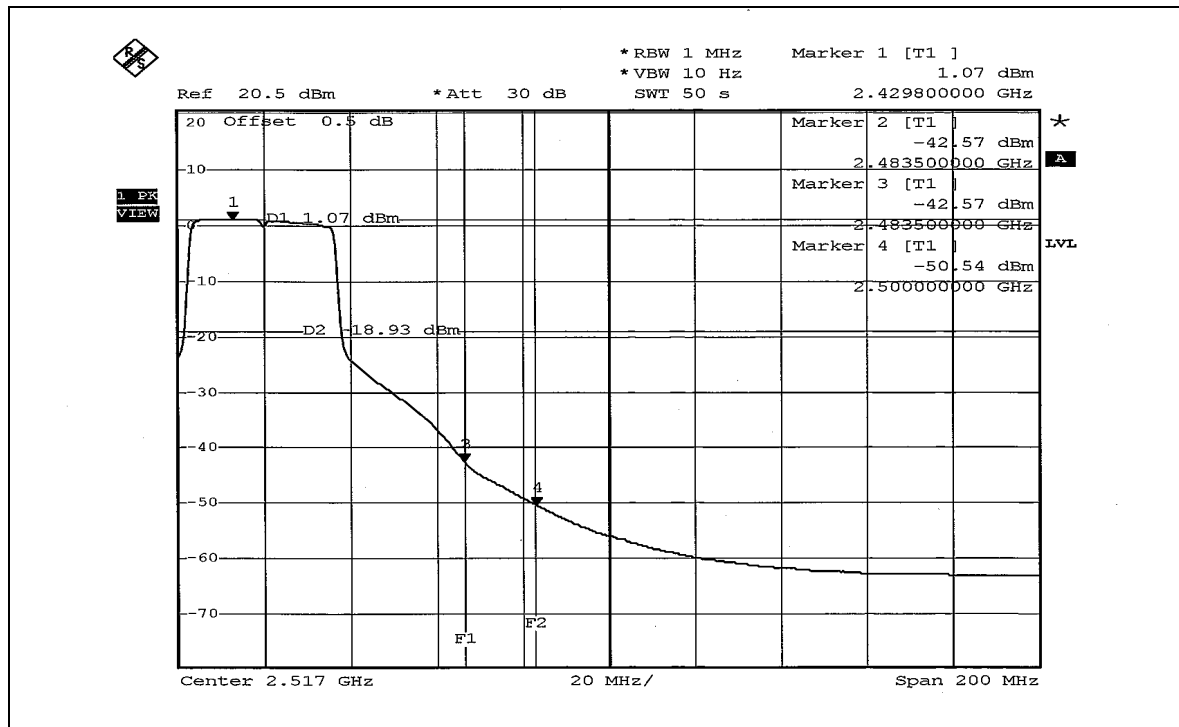
NOTE 2:

The band edge emission plot on the page 67 show 45.51dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 102.25dBuV/m (Peak), so the maximum field strength in restrict band is $102.25 - 45.51 = 56.74$ dBuV/m, which is under 74dBuV/m limit.

The band edge emission plot on the page 68 show 43.64dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 92.38dBuV/m (Average), so the maximum field strength in restrict band is $92.38 - 43.64 = 48.74$ dBuV/m, which is under 54dBuV/m limit.









4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

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

4.7.2 ANTENNA CONNECTED CONSTRUCTION

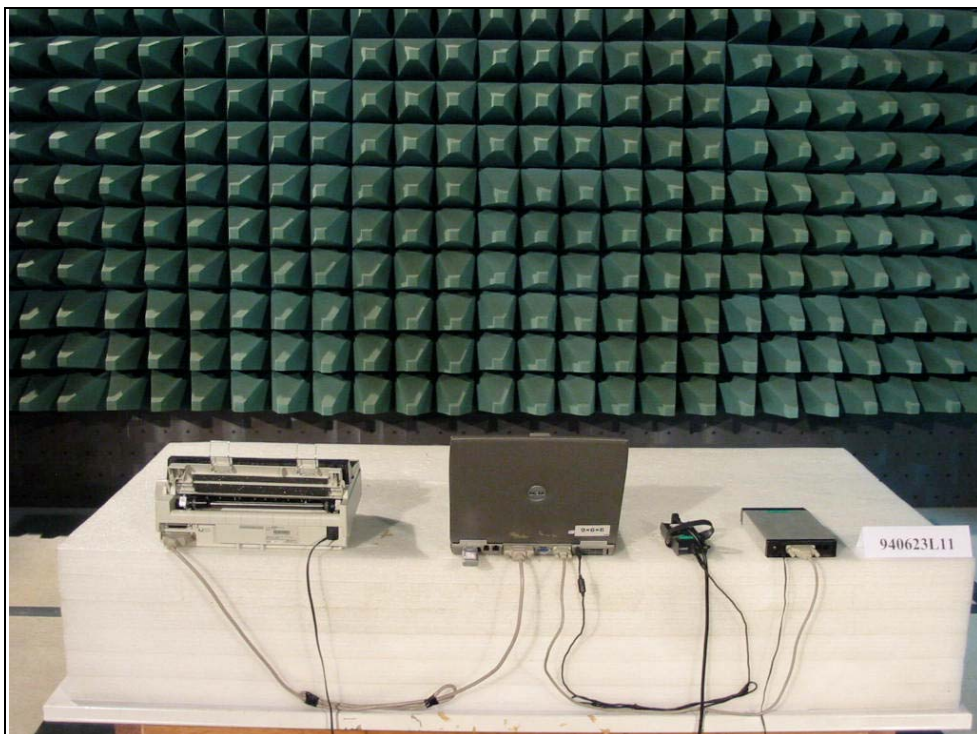
The antenna used in this product is Printed antenna without any antenna connector. The maximum Gain of the antenna is 2.0dBi.

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





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, NVLAP, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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

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: 886-2-26052943

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

Linko RF Lab.

Tel: 886-3-3270910

Fax: 886-3-3270892

Web Site: www.adt.com.tw

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