



FCC TEST REPORT (15.247)

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MODEL NO.: F6D3050
RECEIVED: Dec. 07, 2004
TESTED: Dec. 08 ~ Dec. 23, 2004
ISSUED: Dec. 27, 2004

APPLICANT: Belkin Corporation

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ILAC MRA



No. 2177-01



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1. CERTIFICATION

PRODUCT: Wireless A/G USB Adapter
BRAND NAME: Belkin
MODEL NO.: F6D3050
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Dec. 08 ~ Dec. 23, 2004
APPLICANT: Belkin Corporation
STANDARDS: FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

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

PREPARED BY : Candice Chen , **DATE:** Dec. 27, 2004
(Candice Chen)

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Dec. 27, 2004
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang , **DATE:** Dec. 27, 2004
(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 (Section 15.247)			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -13.61dB at 0.189MHz
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 -1.08dB at 4874.00MHz
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	Wireless A/G USB Adapter
MODEL NO.	F6D3050
POWER SUPPLY	5Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps (Turbo mode: up to 108Mbps *see Note 2) 802.11a: 54/48/36/24/18/12/9/6Mbps (Turbo mode: up to 108Mbps *see Note 2)
FREQUENCY RANGE	802.11b & 802.11g: 2412 ~ 2462MHz 802.11a: 5.15 ~ 5.35GHz and 5.725 ~ 5.850GHz
NUMBER OF CHANNEL	802.11b & 802.11g: 11 for Normal mode / 1 for Turbo mode 802.11a: 13 for Normal mode / 5 for Turbo mode
CHANNEL SPACING	802.11b & 802.11g: 5MHz 802.11a: 20MHz for Normal mode / 40MHz for Turbo mode
OUTPUT POWER	802.11b: 41.591mW 802.11g: 41.783mW 802.11a: 32.734mW
DATA CABLE	1.5m shielded cable without core
ANTENNA TYPE	Printed antenna with 1.5dBi gain for 2.4GHz Printed antenna with 2.9dBi gain for 5GHz
I/O PORTS	USB
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT operates in both the 5GHz and 2.4GHz Bands and compatibility with 802.11a and 802.11b, 802.11g technology.
2. This EUT is capable of providing data rates of up to 108Mbps in Turbo Mode depending upon reception quality.
3. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

For 802.11b/g: Eleven channels are provided to this EUT for normal mode.

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

Operated in 5725 ~ 5850MHz band:

For 802.11a: Five channels are provided to this EUT for normal mode.

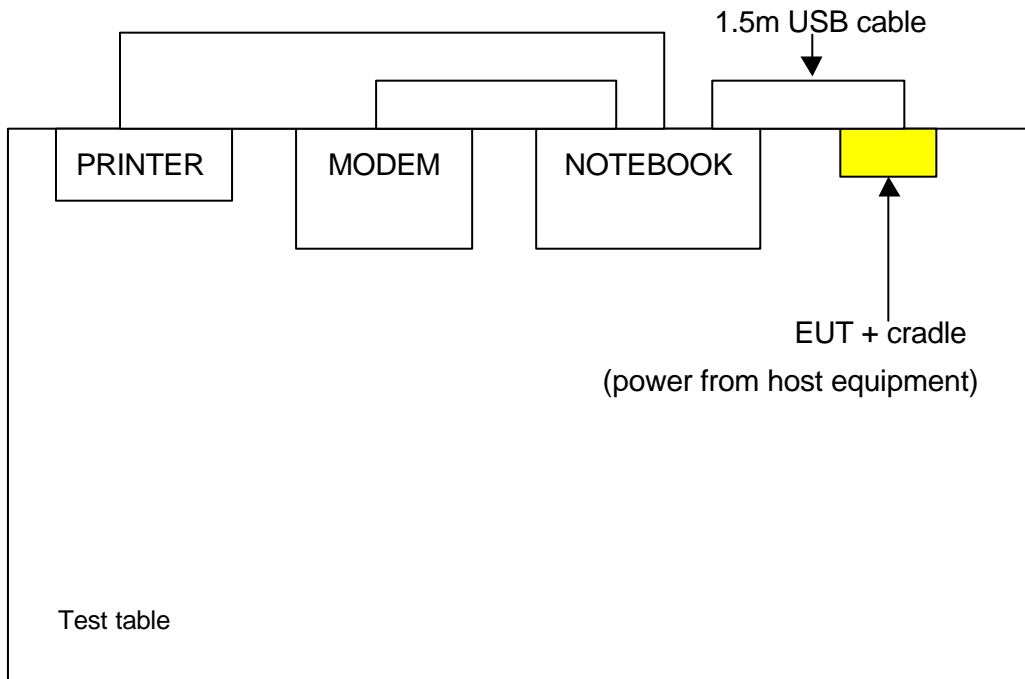
Channel	Frequency
1	5745 MHz
2	5765 MHz
3	5785 MHz
4	5805 MHz
5	5825 MHz

For 802.11a: Two channels are provided to this EUT for turbo mode.

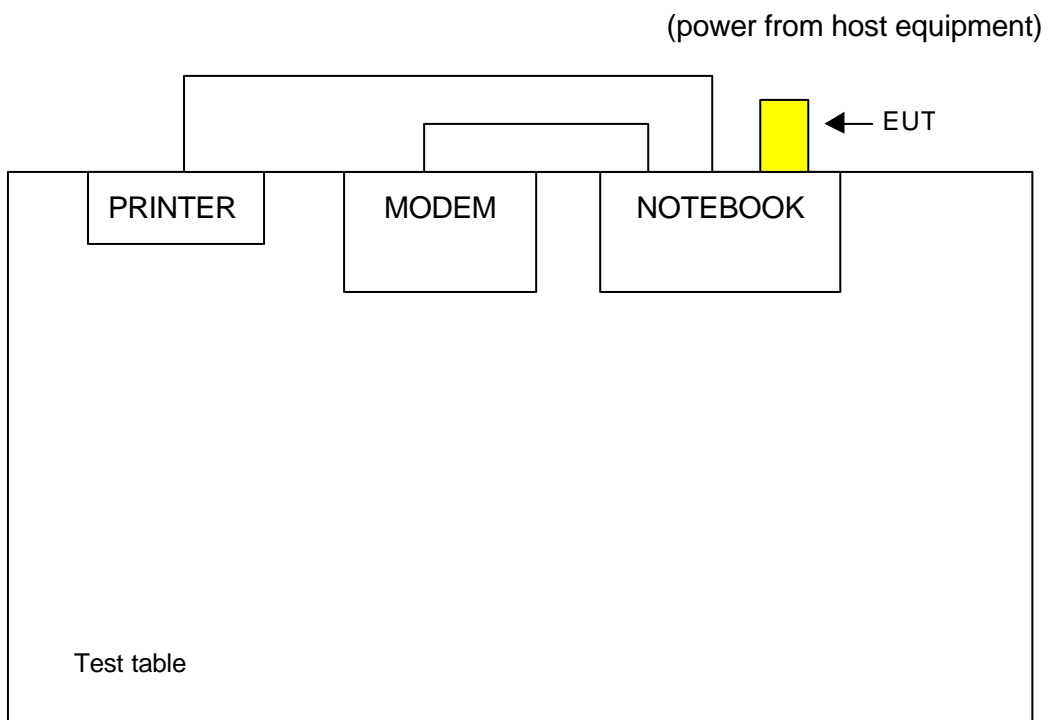
Channel	Frequency
1	5760 MHz
2	5800 MHz

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1 (With USB cradle)



Mode 2 (Without USB cradle)





3.2.2 TEST MODE APPLICABILITY:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
1	X	X	Note 1	Note 2	EUT tested with USB cradle
2	X	X	Note 1	Note 2	EUT tested without USB cradle

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz
 RE≥1G: Radiated Emission above 1GHz APCM: Antenna Port Conducted Measurement
 Note 1: No effect on Radiated Emission above 1GHz.
 2: Conducted RF measurement is independent of Cradle.

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
802.11a	1 to 5	3	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	1	OFDM	BPSK	6
802.11a	1 to 5	3	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
802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6
802.11a Turbo	1 to 2	1, 2	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
802.11a	1 to 5	1, 5	OFDM	BPSK	6
802.11a Turbo	1 to 2	1, 2	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
802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6
802.11a Turbo	1 to 2	1, 2	OFDM	BPSK	12



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless A/G USB 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.



3.4 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	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414
3	PRINTER	EPSON	LQ-300+	DCGY047264	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2 shielded cable without core
3	1.2 shielded cable without core

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



4. TEST TYPES AND RESULTS (802.11b & g 2412~2462MHz Band)

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	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Mar. 03, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Mar. 02, 2005
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.



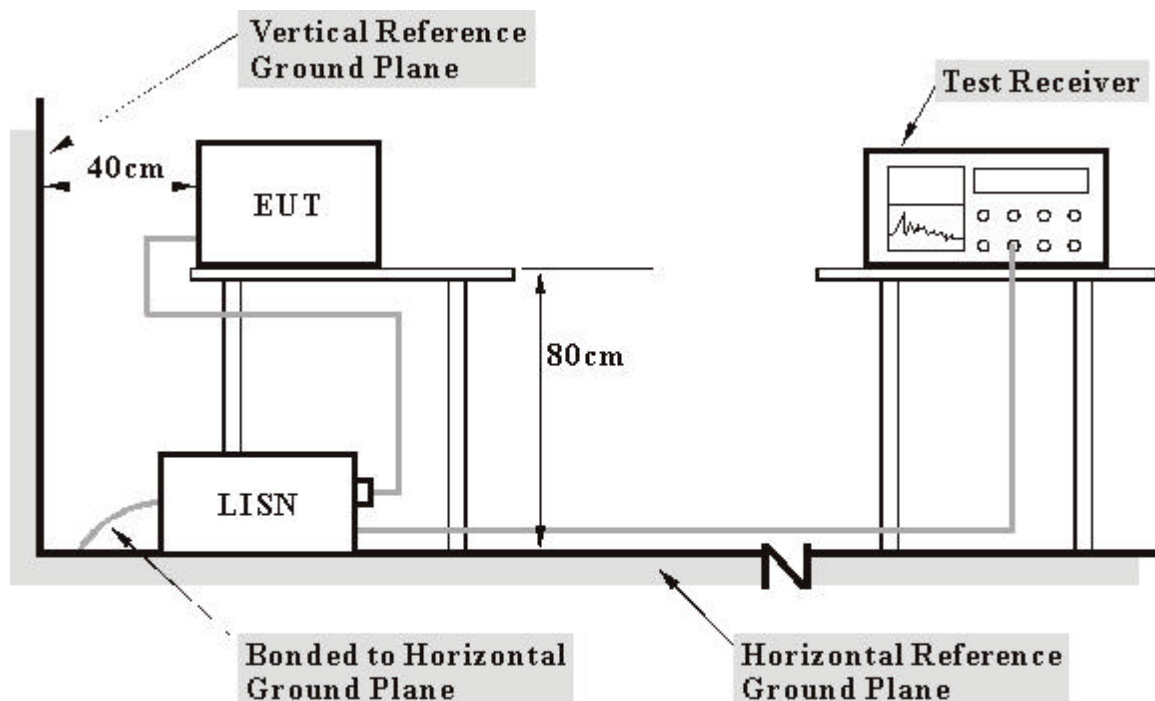
4.1.3 TEST PROCEDURES

- 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) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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 to a notebook system 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.



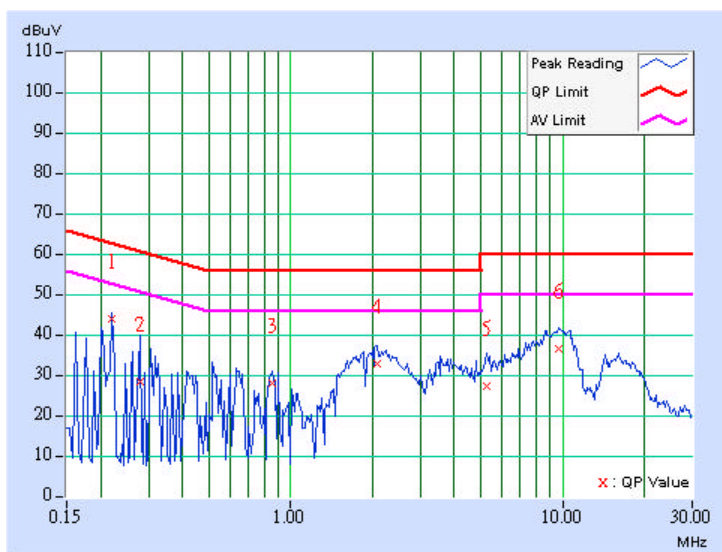
4.1.7 TEST RESULTS

Conducted Worst-Case Data (with cradle)

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	1 (With USB cradle)		

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	0.220	0.12	43.82	-	43.94	-	62.81
2	0.279	0.12	28.25	-	28.37	-	60.85	50.85	-32.48	-
3	0.857	0.14	27.83	-	27.97	-	56.00	46.00	-28.03	-
4	2.082	0.16	32.53	-	32.69	-	56.00	46.00	-23.31	-
5	5.250	0.24	27.02	-	27.26	-	60.00	50.00	-32.74	-
6	9.695	0.30	36.33	-	36.63	-	60.00	50.00	-23.37	-

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

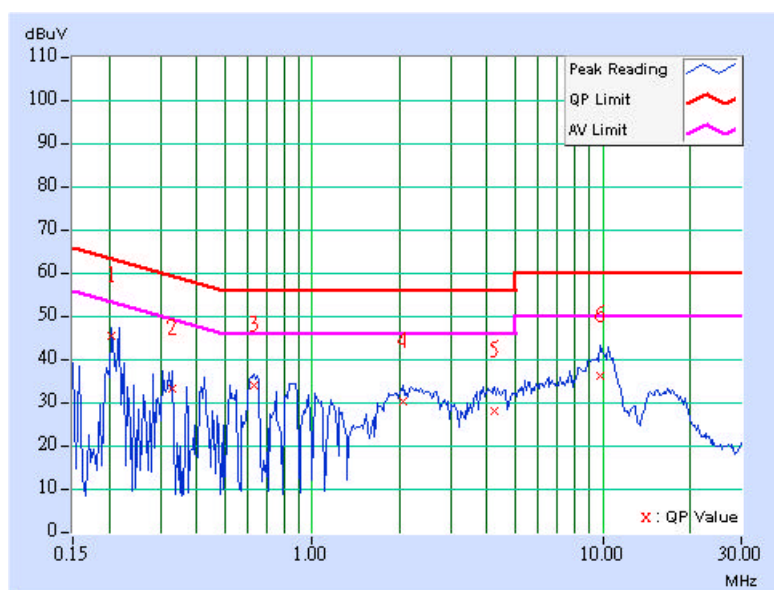




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	1 (With USB cradle)		

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	0.205	0.11	45.19	-	45.30	-	63.42
2	0.330	0.11	32.96	-	33.07	-	59.46	49.46	-26.38	-
3	0.630	0.12	33.88	-	34.00	-	56.00	46.00	-22.00	-
4	2.059	0.16	29.97	-	30.13	-	56.00	46.00	-25.87	-
5	4.234	0.21	27.81	-	28.02	-	56.00	46.00	-27.98	-
6	9.777	0.28	35.97	-	36.25	-	60.00	50.00	-23.75	-

- 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.

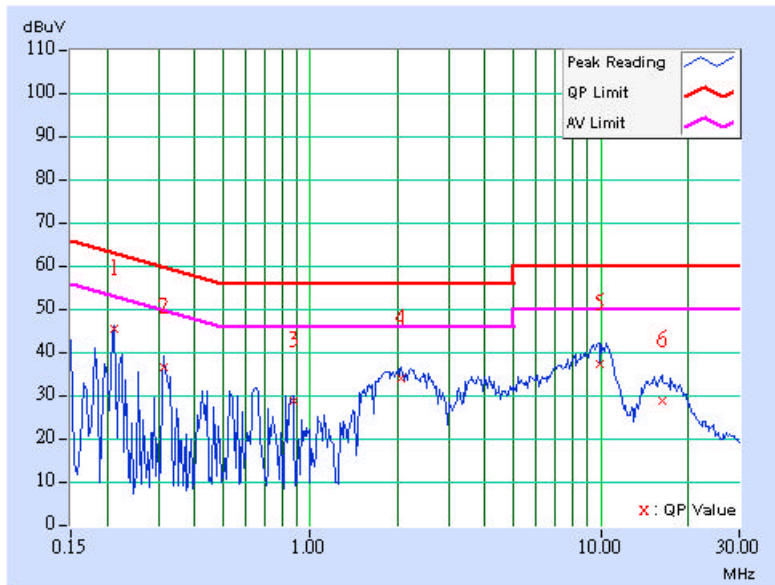




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	1 (With USB cradle)		

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	0.213	0.12	44.88	-	45.00	-	63.11
2	0.314	0.12	35.83	-	35.95	-	59.86	49.86	-23.91	-
3	0.873	0.14	27.91	-	28.05	-	56.00	46.00	-27.95	-
4	2.066	0.16	33.22	-	33.38	-	56.00	46.00	-22.62	-
5	9.941	0.30	36.57	-	36.87	-	60.00	50.00	-23.13	-
6	16.266	0.84	28.01	-	28.85	-	60.00	50.00	-31.15	-

- 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.

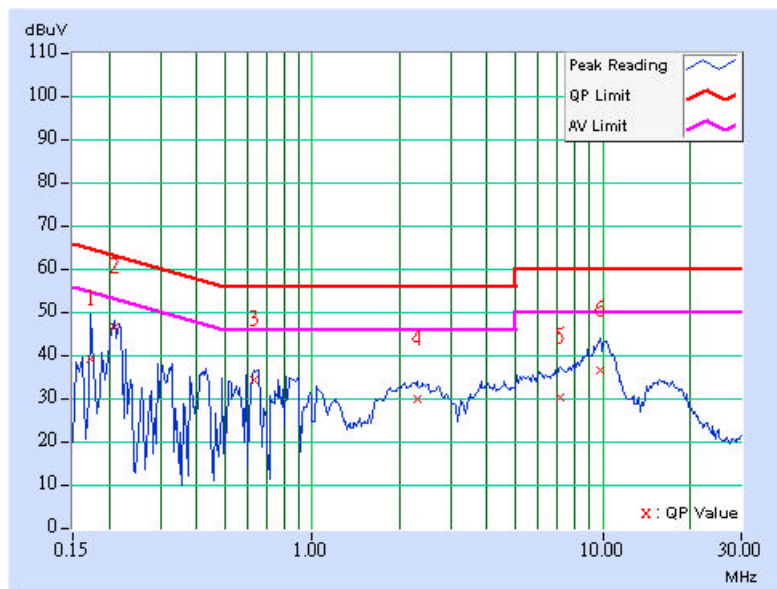




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	1 (With USB cradle)		

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	0.173	0.10	38.84	-	38.94	-	64.79
2	0.209	0.11	46.26	-	46.37	-	63.26	53.26	-16.89	-
3	0.634	0.12	34.02	-	34.14	-	56.00	46.00	-21.86	-
4	2.293	0.17	29.70	-	29.87	-	56.00	46.00	-26.13	-
5	7.152	0.28	29.96	-	30.24	-	60.00	50.00	-29.76	-
6	9.840	0.28	36.21	-	36.49	-	60.00	50.00	-23.51	-

- 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.

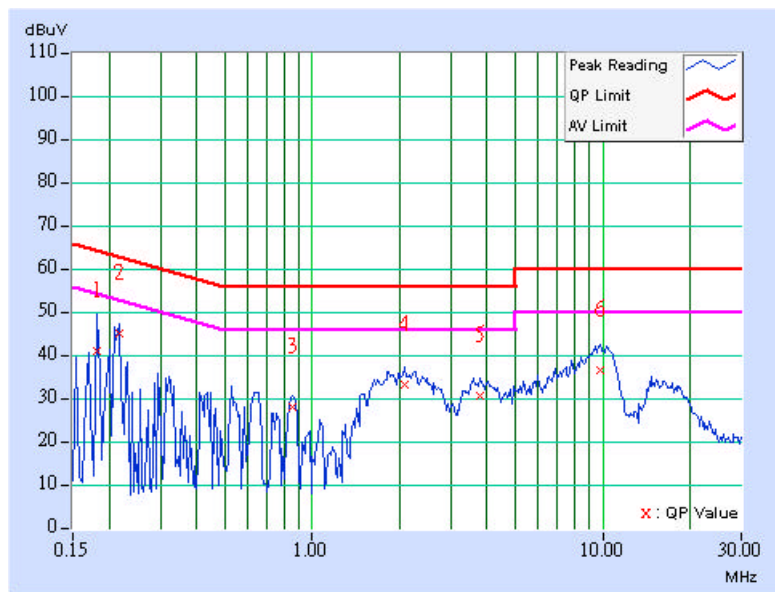




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	1 (With USB cradle)		

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	0.181	0.11	40.82	-	40.93	-	64.43	54.43	-23.49
2	0.216	0.12	45.03	-	45.15	-	62.96	52.96	-17.81	-
3	0.853	0.14	27.85	-	27.99	-	56.00	46.00	-28.01	-
4	2.074	0.16	33.13	-	33.29	-	56.00	46.00	-22.71	-
5	3.793	0.20	30.56	-	30.76	-	56.00	46.00	-25.24	-
6	9.781	0.30	36.29	-	36.59	-	60.00	50.00	-23.41	-

- 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.

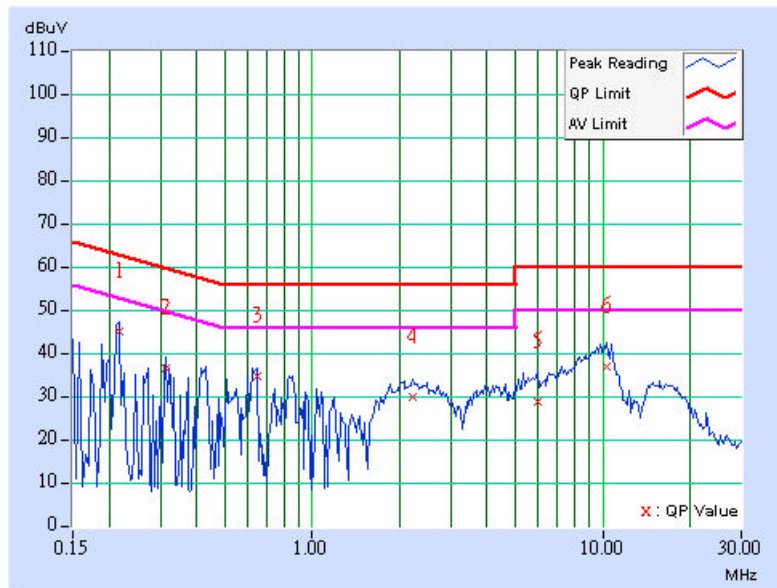




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	1 (With USB cradle)		

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	0.216	0.11	44.78	-	44.89	-	62.96
2	0.314	0.11	36.37	-	36.48	-	59.86	49.86	-23.38	-
3	0.646	0.12	34.40	-	34.52	-	56.00	46.00	-21.48	-
4	2.230	0.16	29.75	-	29.91	-	56.00	46.00	-26.09	-
5	6.008	0.25	28.67	-	28.92	-	60.00	50.00	-31.08	-
6	10.266	0.30	36.61	-	36.91	-	60.00	50.00	-23.09	-

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



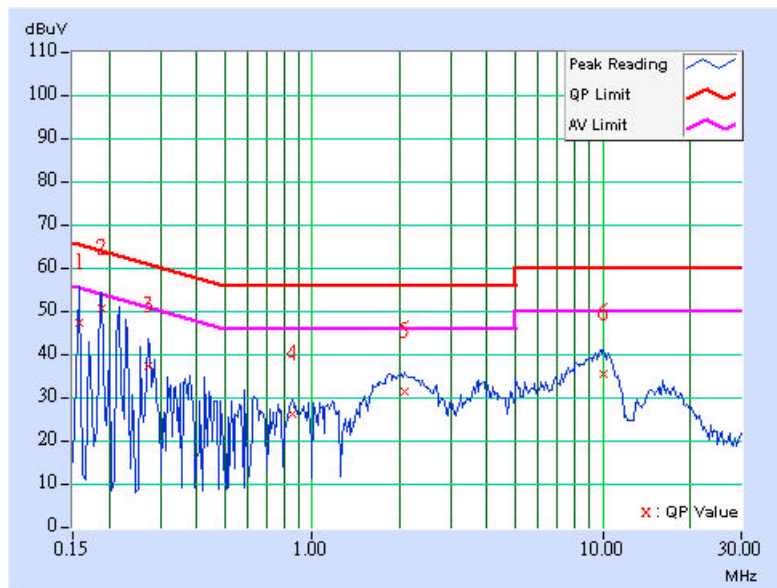


Conducted Worst-Case Data (without cradle)

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	2 (Without USB cradle)		

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	0.158	0.11	47.17	-	47.28	-	65.58
2	0.189	0.12	50.35	-	50.47	-	64.08	54.08	-13.61	-
3	0.271	0.12	36.96	-	37.08	-	61.08	51.08	-24.00	-
4	0.853	0.14	25.85	-	25.99	-	56.00	46.00	-30.01	-
5	2.078	0.16	31.27	-	31.43	-	56.00	46.00	-24.57	-
6	10.063	0.31	35.23	-	35.54	-	60.00	50.00	-24.46	-

- 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.

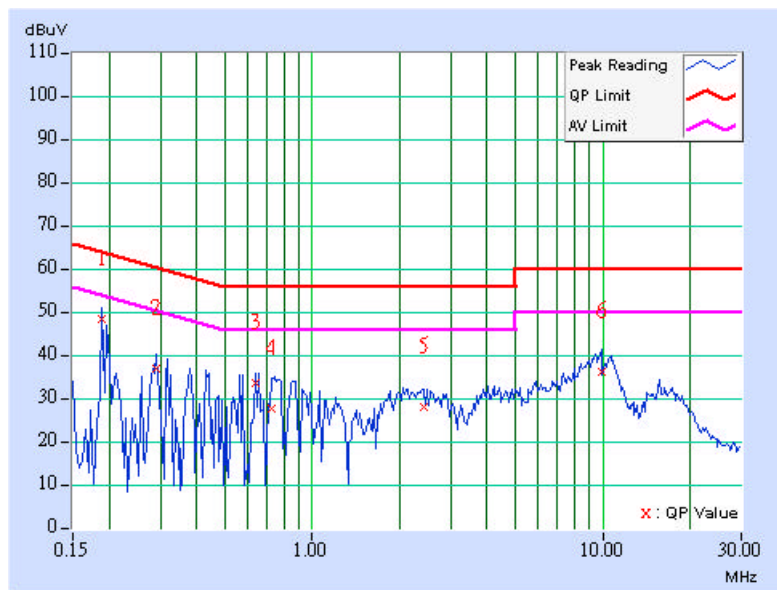




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	2 (Without USB cradle)		

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	48.27	-	48.38	-	64.08
2	0.291	0.11	36.69	-	36.80	-	60.51	50.51	-23.70	-
3	0.642	0.12	33.35	-	33.47	-	56.00	46.00	-22.53	-
4	0.728	0.13	27.52	-	27.65	-	56.00	46.00	-28.35	-
5	2.418	0.17	28.03	-	28.20	-	56.00	46.00	-27.80	-
6	9.953	0.28	35.85	-	36.13	-	60.00	50.00	-23.87	-

- 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.

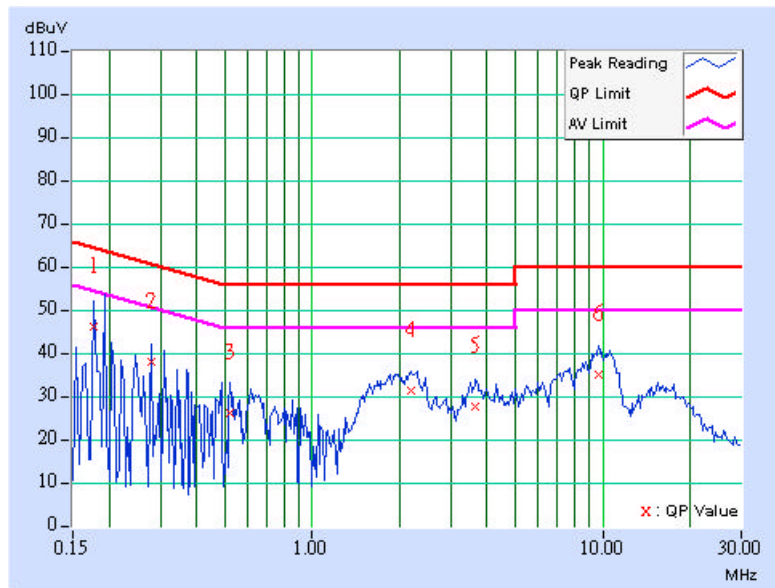




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	2 (Without USB cradle)		

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	0.177	0.11	46.02	-	46.13	-	64.61
2	0.279	0.12	37.70	-	37.82	-	60.85	50.85	-23.03	-
3	0.521	0.13	25.83	-	25.96	-	56.00	46.00	-30.04	-
4	2.199	0.16	31.05	-	31.21	-	56.00	46.00	-24.79	-
5	3.660	0.20	27.65	-	27.85	-	56.00	46.00	-28.15	-
6	9.648	0.30	34.82	-	35.12	-	60.00	50.00	-24.88	-

- 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.

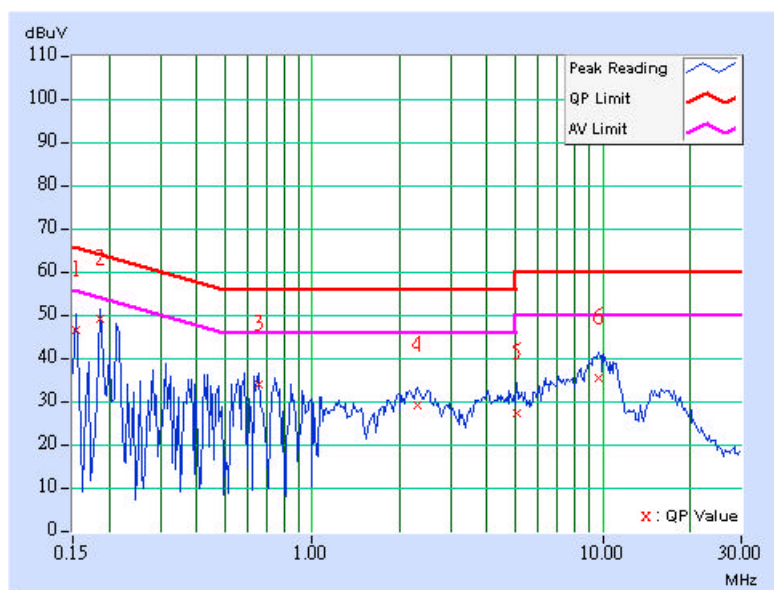




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	2 (Without USB cradle)		

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	0.154	0.10	46.48	-	46.58	-	65.79
2	0.185	0.11	49.05	-	49.16	-	64.25	54.25	-15.09	-
3	0.658	0.12	33.74	-	33.86	-	56.00	46.00	-22.14	-
4	2.316	0.17	29.11	-	29.28	-	56.00	46.00	-26.72	-
5	5.055	0.22	27.14	-	27.36	-	60.00	50.00	-32.64	-
6	9.684	0.28	35.22	-	35.50	-	60.00	50.00	-24.50	-

- 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.

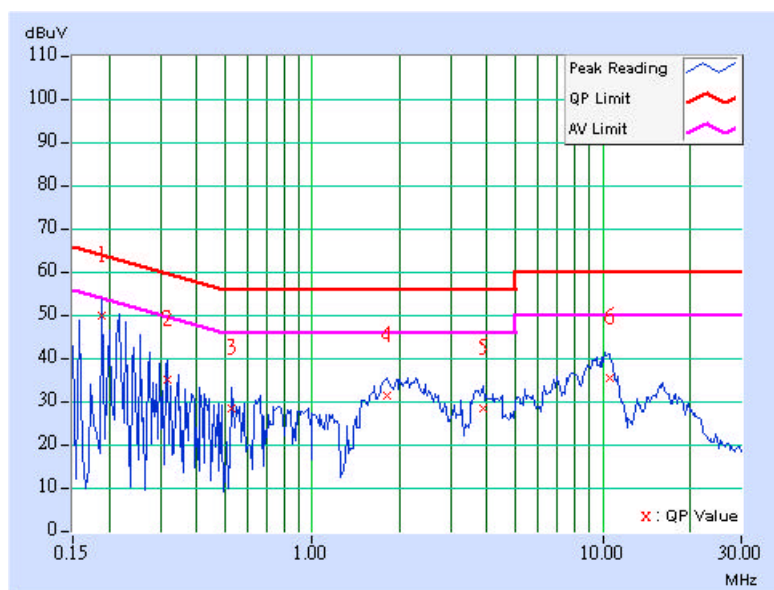




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	2 (Without USB cradle)		

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	0.12	49.53	-	49.65	-	64.08
2	0.318	0.12	34.97	-	35.09	-	59.76	49.76	-24.67	-
3	0.529	0.13	28.05	-	28.18	-	56.00	46.00	-27.82	-
4	1.809	0.16	30.95	-	31.11	-	56.00	46.00	-24.89	-
5	3.879	0.20	28.12	-	28.32	-	56.00	46.00	-27.68	-
6	10.531	0.35	35.22	-	35.57	-	60.00	50.00	-24.43	-

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

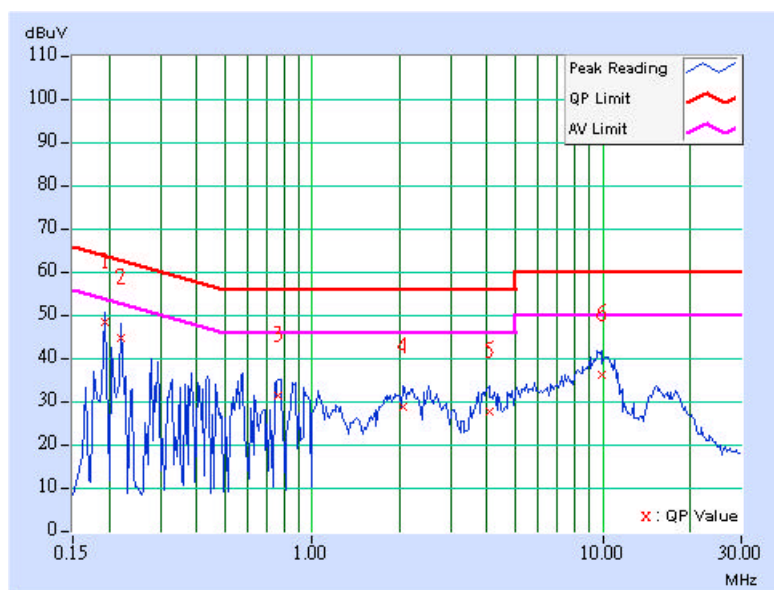




EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	TESTED BY	Leo Hung
TEST MODE	2 (Without USB cradle)		

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	0.193	0.11	48.25	-	48.36	-	63.91
2	0.220	0.11	44.70	-	44.81	-	62.81	52.81	-18.00	-
3	0.767	0.13	31.36	-	31.49	-	56.00	46.00	-24.51	-
4	2.063	0.16	28.62	-	28.78	-	56.00	46.00	-27.22	-
5	4.059	0.20	27.55	-	27.75	-	56.00	46.00	-28.25	-
6	9.938	0.28	36.07	-	36.35	-	60.00	50.00	-23.65	-

- 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	ESIB7	100188	Jan. 13, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	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 1.
 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 IC4924-2.



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. 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 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

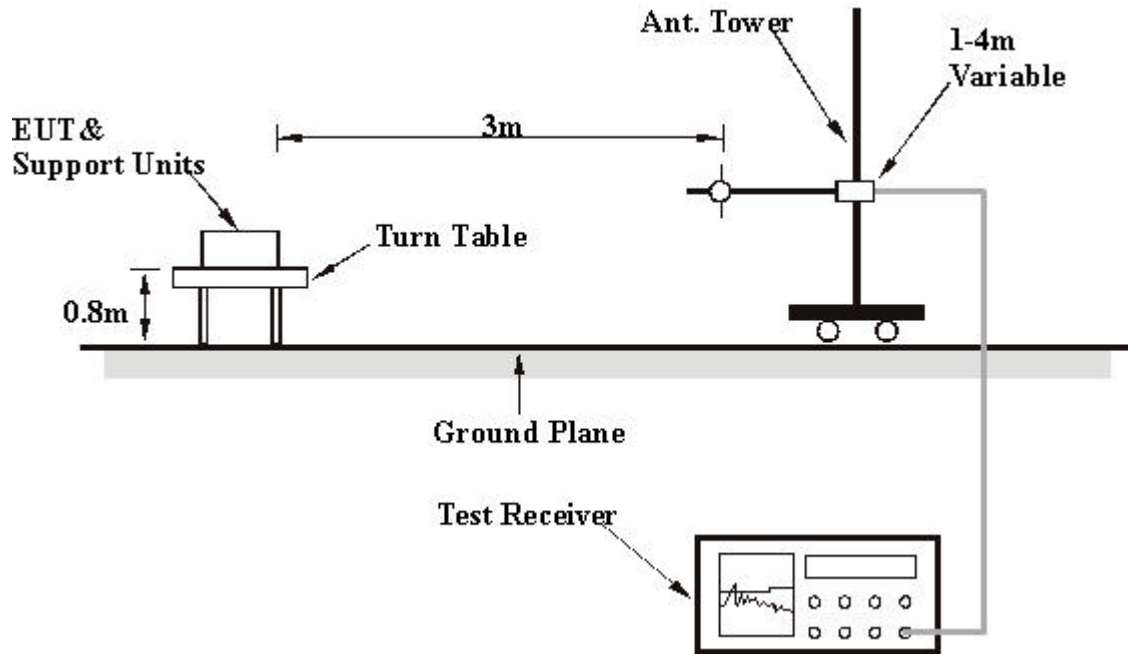
NOTE:

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

Below 1GHz Worst-Case Data (with cradle)

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui
TEST MODE	1 (With USB cradle)		

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	59.16	19.51 QP	40.00	-20.49	1.50 H	61	5.72	13.79
2	119.42	29.67 QP	43.50	-13.83	1.25 H	76	16.70	12.97
3	169.96	33.53 QP	43.50	-9.97	1.00 H	271	19.61	13.93
4	220.50	42.70 QP	46.00	-3.30	1.00 H	355	30.83	11.87
5	274.93	33.76 QP	46.00	-12.24	1.00 H	7	19.78	13.98
6	319.64	36.93 QP	46.00	-9.07	1.00 H	241	21.98	14.95
7	393.51	34.86 QP	46.00	-11.14	1.00 H	190	18.26	16.61
8	480.98	33.02 QP	46.00	-12.98	1.00 H	265	14.54	18.48
9	605.39	32.25 QP	46.00	-13.75	1.25 H	244	11.16	21.08
10	665.65	27.06 QP	46.00	-18.94	1.00 H	25	5.18	21.87
11	706.47	33.23 QP	46.00	-12.77	1.00 H	358	10.77	22.46
12	760.90	28.90 QP	46.00	-17.10	1.00 H	151	5.30	23.59
13	863.93	27.54 QP	46.00	-18.46	1.25 H	1	3.09	24.45
14	974.73	34.50 QP	54.00	-19.50	1.00 H	337	8.79	25.72

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



EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui
TEST MODE	1 (With USB cradle)		

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	57.21	29.32 QP	40.00	-10.68	1.00 V	67	15.34	13.99
2	123.31	33.54 QP	43.50	-9.96	1.25 V	349	20.28	13.26
3	171.90	35.96 QP	43.50	-7.54	1.25 V	310	22.22	13.74
4	218.56	35.17 QP	46.00	-10.83	1.50 V	178	23.36	11.80
5	239.94	33.70 QP	46.00	-12.30	1.25 V	205	20.63	13.07
6	337.13	28.18 QP	46.00	-17.82	1.25 V	262	12.83	15.35
7	399.34	34.05 QP	46.00	-11.95	1.00 V	277	17.31	16.74
8	480.98	40.51 QP	46.00	-5.49	1.25 V	4	22.03	18.48
9	494.59	34.88 QP	46.00	-11.12	1.50 V	199	16.22	18.66
10	599.56	30.06 QP	46.00	-15.94	1.00 V	184	9.06	21.00
11	667.60	31.96 QP	46.00	-14.04	1.00 V	121	10.06	21.90
12	733.69	31.46 QP	46.00	-14.54	1.50 V	280	8.33	23.13
13	776.45	29.41 QP	46.00	-16.59	1.50 V	94	5.73	23.68
14	867.82	29.28 QP	46.00	-16.72	1.25 V	349	4.76	24.52
15	920.30	28.03 QP	46.00	-17.97	1.00 V	223	2.70	25.33

- 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


Below 1GHz Worst-Case Data (without cradle)

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui
TEST MODE	2 (Without USB cradle)		

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	117.47	35.70 QP	43.50	-7.80	1.50 H	265	22.93	12.77
2	166.07	31.73 QP	43.50	-11.77	1.75 H	76	17.42	14.30
3	199.12	34.45 QP	43.50	-9.05	1.25 H	73	22.99	11.46
4	399.34	35.99 QP	46.00	-10.01	1.00 H	280	19.25	16.74
5	479.04	28.86 QP	46.00	-17.14	1.75 H	40	10.41	18.45
6	560.68	31.91 QP	46.00	-14.09	1.50 H	76	11.94	19.97
7	599.56	31.07 QP	46.00	-14.93	1.50 H	94	10.07	21.00
8	640.38	32.60 QP	46.00	-13.40	1.25 H	55	11.05	21.55
9	681.20	31.23 QP	46.00	-14.77	1.25 H	4	9.17	22.07
10	720.08	33.69 QP	46.00	-12.31	1.25 H	52	10.89	22.79
11	760.90	32.59 QP	46.00	-13.41	1.00 H	46	8.99	23.59
12	799.78	33.45 QP	46.00	-12.55	1.00 H	43	9.64	23.82
13	865.87	30.20 QP	46.00	-15.80	1.50 H	304	5.72	24.48
14	920.30	30.61 QP	46.00	-15.39	1.50 H	40	5.28	25.33
15	961.12	41.99 QP	54.00	-12.01	1.25 H	106	16.31	25.68

- 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



EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui
TEST MODE	2 (Without USB cradle)		

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	41.66	25.18 QP	40.00	-14.82	1.00 V	79	9.94	15.25
2	84.43	28.13 QP	40.00	-11.87	1.00 V	343	18.06	10.07
3	125.25	35.99 QP	43.50	-7.51	1.00 V	22	22.60	13.39
4	173.85	32.32 QP	43.50	-11.18	1.25 V	301	18.77	13.55
5	263.27	29.59 QP	46.00	-16.41	1.00 V	4	16.09	13.50
6	399.34	30.41 QP	46.00	-15.59	1.50 V	82	13.68	16.74
7	467.37	30.32 QP	46.00	-15.68	1.00 V	40	12.02	18.30
8	560.68	28.08 QP	46.00	-17.92	1.00 V	271	8.11	19.97
9	599.56	29.34 QP	46.00	-16.66	1.00 V	37	8.34	21.00
10	640.38	30.10 QP	46.00	-15.90	1.00 V	337	8.55	21.55
11	681.20	29.12 QP	46.00	-16.88	1.00 V	37	7.05	22.07
12	720.08	30.87 QP	46.00	-15.13	1.50 V	13	8.08	22.79
13	760.90	30.66 QP	46.00	-15.34	1.00 V	271	7.06	23.59
14	799.78	30.12 QP	46.00	-15.88	1.50 V	22	6.31	23.82
15	840.60	29.80 QP	46.00	-16.20	1.50 V	337	5.68	24.12

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

**802.11b DSSS modulation**

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	56.34 PK	74.00	-17.66	1.08 H	210	24.55	31.79
1	2386.00	48.85 AV	54.00	-5.15	1.08 H	210	17.06	31.79
2	*2412.00	112.84 PK			1.08 H	210	80.97	31.87
2	*2412.00	105.35 AV			1.08 H	210	73.48	31.87
3	2688.00	47.88 PK	74.00	-26.12	1.00 H	142	14.98	32.90
3	2688.00	44.45 AV	54.00	-9.55	1.00 H	142	11.55	32.90
4	4824.00	54.86 PK	74.00	-19.14	1.03 H	37	16.74	38.11
4	4824.00	47.73 AV	54.00	-6.27	1.03 H	37	9.61	38.11

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	48.62 PK	74.00	-25.38	1.13 V	19	16.82	31.80
1	2390.00	41.22 AV	54.00	-12.78	1.13 V	19	9.42	31.80
2	*2412.00	105.12 PK			1.13 V	19	73.25	31.87
2	*2412.00	97.72 AV			1.13 V	19	65.85	31.87
3	2688.00	44.24 PK	74.00	-29.76	1.16 V	346	11.34	32.90
3	2688.00	37.32 AV	54.00	-16.68	1.16 V	346	4.42	32.90
4	4824.00	58.21 PK	74.00	-15.79	1.00 V	21	20.09	38.11
4	4824.00	50.54 AV	54.00	-3.46	1.00 V	21	12.42	38.11

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



EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	113.39 PK			1.05 H	360	81.44	31.95
1	*2437.00	105.86 AV			1.05 H	360	73.91	31.95
2	2688.00	45.82 PK	74.00	-28.18	1.04 H	145	12.92	32.90
2	2688.00	45.15 AV	54.00	-8.85	1.04 H	145	12.25	32.90
3	4874.00	55.95 PK	74.00	-18.05	1.04 H	36	17.66	38.28
3	4874.00	49.04 AV	54.00	-4.96	1.04 H	36	10.75	38.28

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	108.70 PK			1.00 V	293	76.75	31.95
1	*2437.00	101.17 AV			1.00 V	293	69.22	31.95
2	2688.00	45.42 PK	74.00	-28.58	1.00 V	120	12.52	32.90
2	2688.00	36.37 AV	54.00	-17.63	1.00 V	120	3.47	32.90
3	4874.00	59.69 PK	74.00	-14.31	1.10 V	37	21.40	38.28
3	4874.00	52.92 AV	54.00	-1.08	1.10 V	37	14.63	38.28

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



EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	2236.00	50.70 PK	74.00	-23.30	1.14 H	11	19.47	31.23
1	2236.00	44.82 AV	54.00	-9.18	1.14 H	11	13.59	31.23
2	*2462.00	112.96 PK			1.07 H	17	80.94	32.02
2	*2462.00	105.72 AV			1.07 H	17	73.70	32.02
3	2487.00	56.02 PK	74.00	-17.98	1.07 H	17	23.92	32.10
3	2487.00	48.78 AV	54.00	-5.22	1.07 H	17	16.68	32.10
4	2688.00	47.23 PK	74.00	-26.77	1.00 H	138	14.33	32.90
4	2688.00	46.16 AV	54.00	-7.84	1.00 H	138	13.26	32.90
5	4924.00	59.21 PK	74.00	-14.79	1.16 H	203	20.72	38.49
5	4924.00	52.73 AV	54.00	-1.27	1.16 H	203	14.24	38.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2236.00	49.38 PK	74.00	-24.62	1.15 V	350	18.15	31.23
1	2236.00	42.84 AV	54.00	-11.16	1.15 V	350	11.61	31.23
2	*2462.00	111.18 PK			1.32 V	331	79.16	32.02
2	*2462.00	103.48 AV			1.32 V	331	71.46	32.02
3	2487.00	54.24 PK	74.00	-19.76	1.32 V	331	22.14	32.10
3	2487.00	46.54 AV	54.00	-7.46	1.32 V	331	14.44	32.10
4	2688.00	43.93 PK	74.00	-30.07	1.22 V	1	11.03	32.90
4	2688.00	41.69 AV	54.00	-12.31	1.22 V	1	8.79	32.90
5	4924.00	56.04 PK	74.00	-17.96	1.00 V	357	17.55	38.49
5	4924.00	50.49 AV	54.00	-3.51	1.00 V	357	12.00	38.49

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

**802.11g OFDM modulation**

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	2360.00	52.84 PK	74.00	-21.16	1.11 H	208	21.13	31.71
1	2360.00	42.69 AV	54.00	-11.31	1.11 H	208	10.98	31.71
2	2390.00	63.49 PK	74.00	-10.51	1.05 H	10	31.69	31.80
2	2390.00	50.90 AV	54.00	-3.10	1.05 H	10	19.10	31.80
3	*2412.00	109.63 PK			1.05 H	10	77.76	31.87
3	*2412.00	99.23 AV			1.05 H	10	67.36	31.87
4	2688.00	49.68 PK	74.00	-24.32	1.20 H	127	16.78	32.90
4	2688.00	46.47 AV	54.00	-7.53	1.20 H	127	13.57	32.90
5	4824.00	53.33 PK	74.00	-20.67	1.04 H	207	15.21	38.11
5	4824.00	40.13 AV	54.00	-13.87	1.04 H	207	2.01	38.11

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	54.05 PK	74.00	-19.95	1.14 V	10	22.25	31.80
1	2390.00	44.92 AV	54.00	-9.08	1.14 V	10	13.12	31.80
2	*2412.00	102.38 PK			1.14 V	10	70.51	31.87
2	*2412.00	93.25 AV			1.14 V	10	61.38	31.87
3	2688.00	45.98 PK	74.00	-28.02	1.18 V	344	13.08	32.90
3	2688.00	40.86 AV	54.00	-13.14	1.18 V	344	7.96	32.90
4	4824.00	54.74 PK	74.00	-19.26	1.00 V	40	16.62	38.11
4	4824.00	41.05 AV	54.00	-12.95	1.00 V	40	2.93	38.11

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



EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	110.63 PK			1.09 H	207	78.68	31.95
1	*2437.00	101.35 AV			1.09 H	207	69.40	31.95
2	2688.00	48.14 PK	74.00	-25.86	1.00 H	143	15.24	32.90
2	2688.00	44.75 AV	54.00	-9.25	1.00 H	143	11.85	32.90
3	4874.00	53.15 PK	74.00	-20.85	1.05 H	196	14.86	38.28
3	4874.00	41.80 AV	54.00	-12.20	1.05 H	196	3.51	38.28

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.32 PK			1.11 V	158	70.37	31.95
1	*2437.00	92.80 AV			1.11 V	158	60.85	31.95
2	2688.00	43.37 PK	74.00	-30.63	1.05 V	15	10.47	32.90
2	2688.00	36.39 AV	54.00	-17.61	1.05 V	15	3.49	32.90
3	4874.00	56.27 PK	74.00	-17.73	1.00 V	360	17.98	38.28
3	4874.00	41.42 AV	54.00	-12.58	1.00 V	360	3.13	38.28

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



EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	108.20 PK			1.06 H	360	76.18	32.02
1	*2462.00	97.27 AV			1.06 H	360	65.25	32.02
2	2483.50	63.00 PK	74.00	-11.00	1.06 H	360	30.91	32.09
2	2483.50	52.18 AV	54.00	-1.82	1.06 H	360	20.09	32.09
3	2688.00	47.86 PK	74.00	-26.14	1.21 H	125	14.96	32.90
3	2688.00	44.47 AV	54.00	-9.53	1.21 H	125	11.57	32.90
4	4924.00	52.54 PK	74.00	-21.46	1.16 H	192	14.05	38.49
4	4924.00	38.83 AV	54.00	-15.17	1.16 H	192	0.34	38.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.04 PK			1.00 V	285	72.02	32.02
1	*2462.00	95.17 AV			1.00 V	285	63.15	32.02
2	2483.50	58.84 PK	74.00	-15.16	1.00 V	285	26.75	32.09
2	2483.50	49.97 AV	54.00	-4.03	1.00 V	285	17.88	32.09
3	2688.00	43.88 PK	74.00	-30.12	1.07 V	96	10.98	32.90
3	2688.00	35.52 AV	54.00	-18.48	1.07 V	96	2.62	32.90
4	4924.00	51.28 PK	74.00	-22.72	1.16 V	295	12.79	38.49
4	4924.00	38.01 AV	54.00	-15.99	1.16 V	295	-0.48	38.49

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



802.11g Turbo OFDM modulation

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

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	2360.00	55.56 PK	74.00	-18.44	1.11 H	212	23.85	31.71
1	2360.00	42.76 AV	54.00	-11.24	1.11 H	212	11.05	31.71
2	2390.00	60.42 PK	74.00	-13.58	1.04 H	360	28.62	31.80
2	2390.00	48.71 AV	54.00	-5.29	1.04 H	360	16.91	31.80
3	*2437.00	106.11 PK			1.04 H	360	74.16	31.95
3	*2437.00	97.42 AV			1.04 H	360	65.47	31.95
4	2483.50	62.51 PK	74.00	-11.49	1.04 H	360	30.42	32.09
4	2483.50	50.44 AV	54.00	-3.56	1.04 H	360	18.35	32.09
5	2688.00	48.95 PK	74.00	-25.05	1.00 H	143	16.05	32.90
5	2688.00	45.60 AV	54.00	-8.40	1.00 H	143	12.70	32.90
6	4874.00	51.13 PK	74.00	-22.87	1.12 H	12	12.84	38.28
6	4874.00	37.18 AV	54.00	-16.82	1.12 H	12	-1.11	38.28

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	57.11 PK	74.00	-16.89	1.00 V	295	25.31	31.80
1	2390.00	46.86 AV	54.00	-7.14	1.00 V	295	15.06	31.80
2	*2437.00	103.07 PK			1.00 V	295	71.12	31.95
2	*2437.00	93.73 AV			1.00 V	295	61.78	31.95
3	2483.50	60.80 PK	74.00	-13.20	1.00 V	295	28.71	32.09
3	2483.50	48.24 AV	54.00	-5.76	1.00 V	295	16.15	32.09
4	2688.00	45.11 PK	74.00	-28.89	1.22 V	345	12.21	32.90
4	2688.00	37.36 AV	54.00	-16.64	1.22 V	345	4.46	32.90
5	4874.00	50.15 PK	74.00	-23.85	1.03 V	237	11.86	38.28
5	4874.00	37.66 AV	54.00	-16.34	1.03 V	237	-0.63	38.28

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

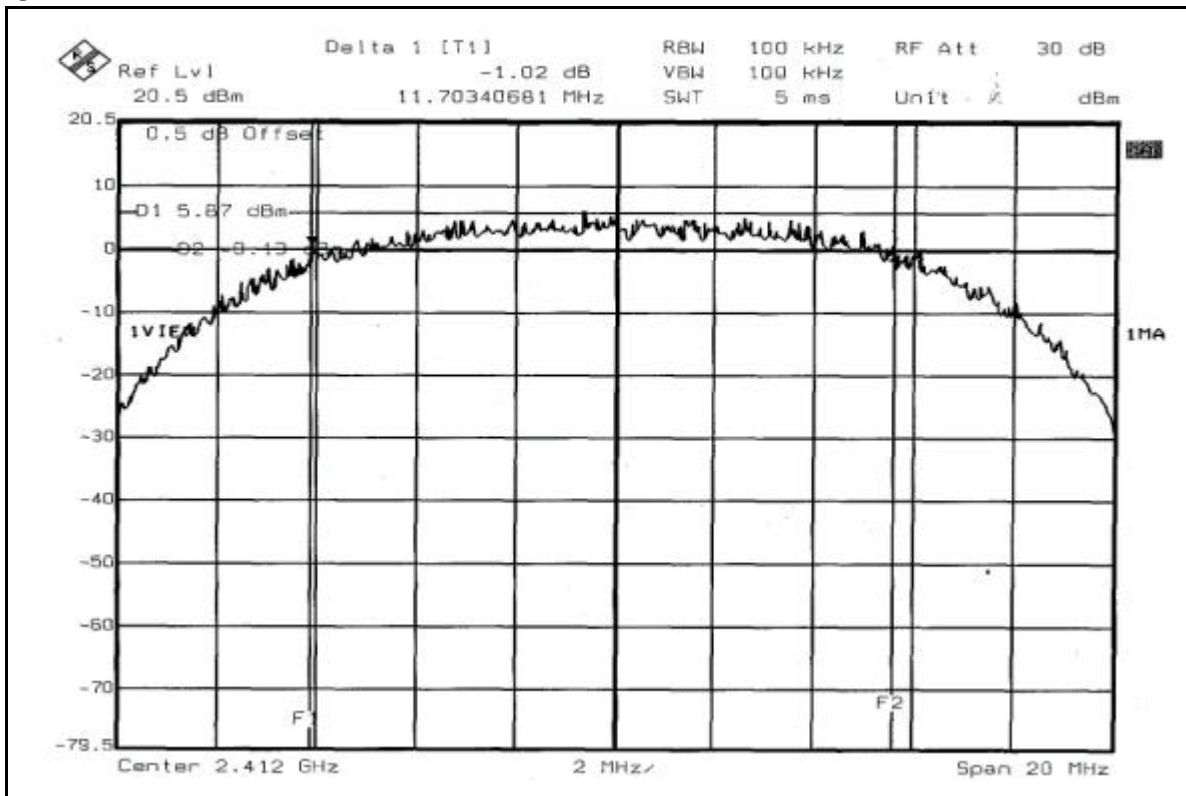
802.11b DSSS modulation

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TESTED BY	Leo Hung		

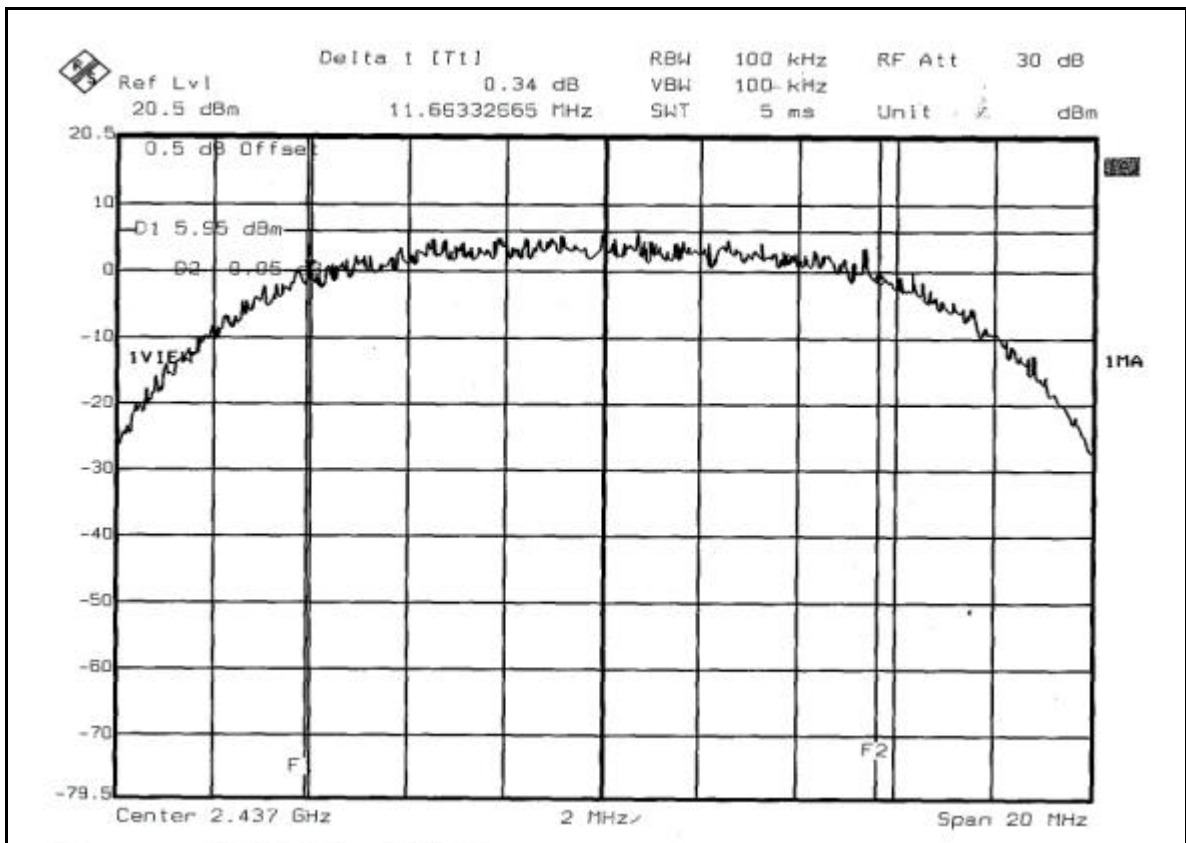
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.70	0.5	PASS
6	2437	11.66	0.5	PASS
11	2462	11.54	0.5	PASS



CH1

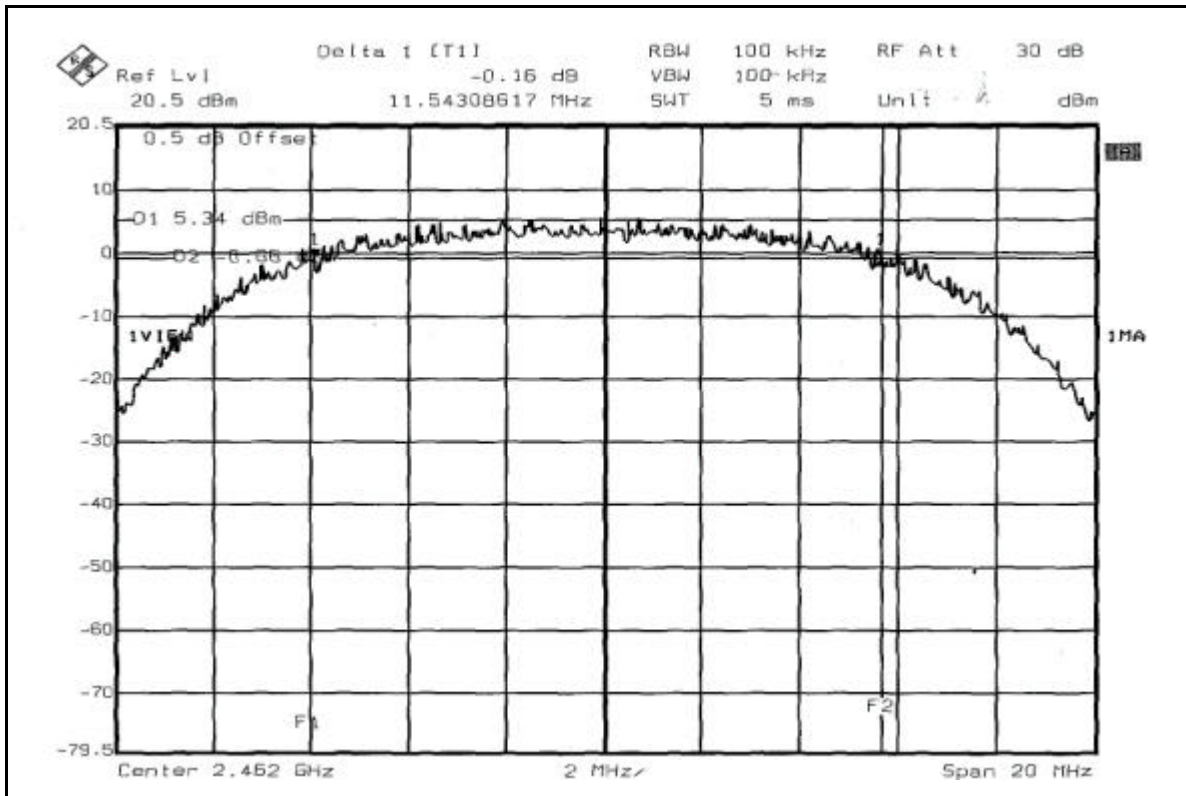


CH6





CH11





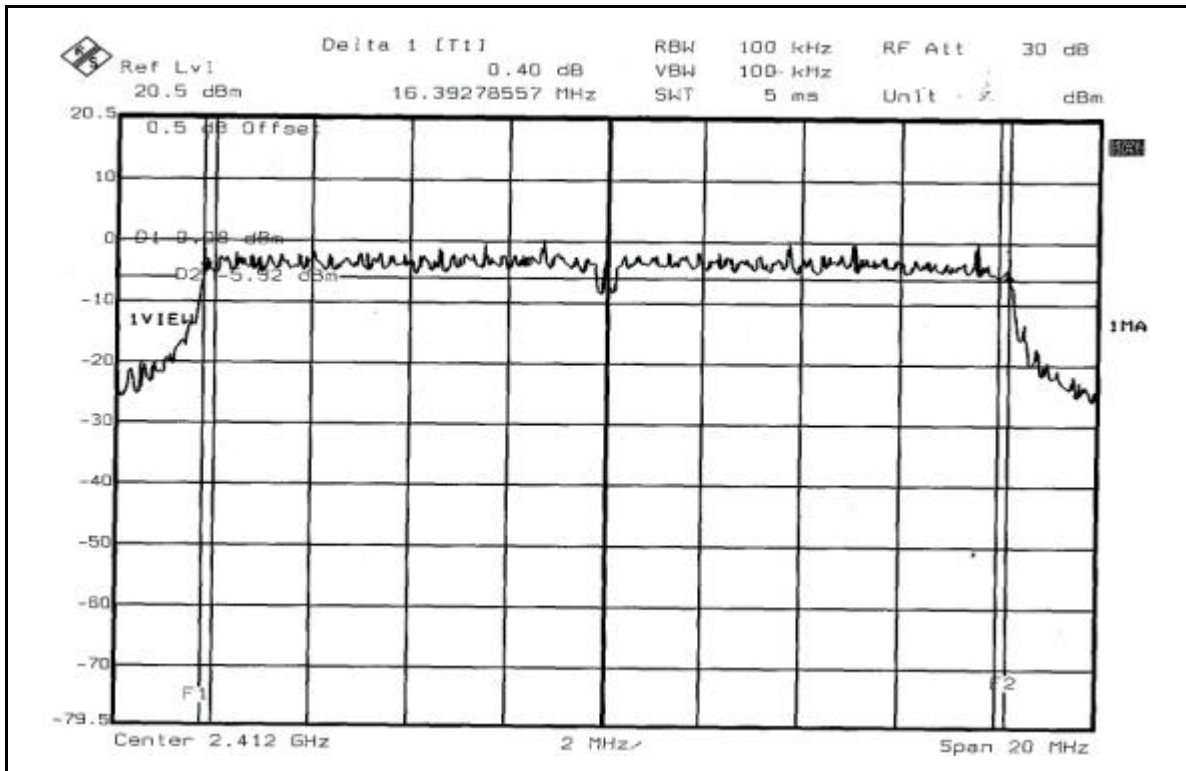
802.11g OFDM modulation

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TESTED BY	Leo Hung		

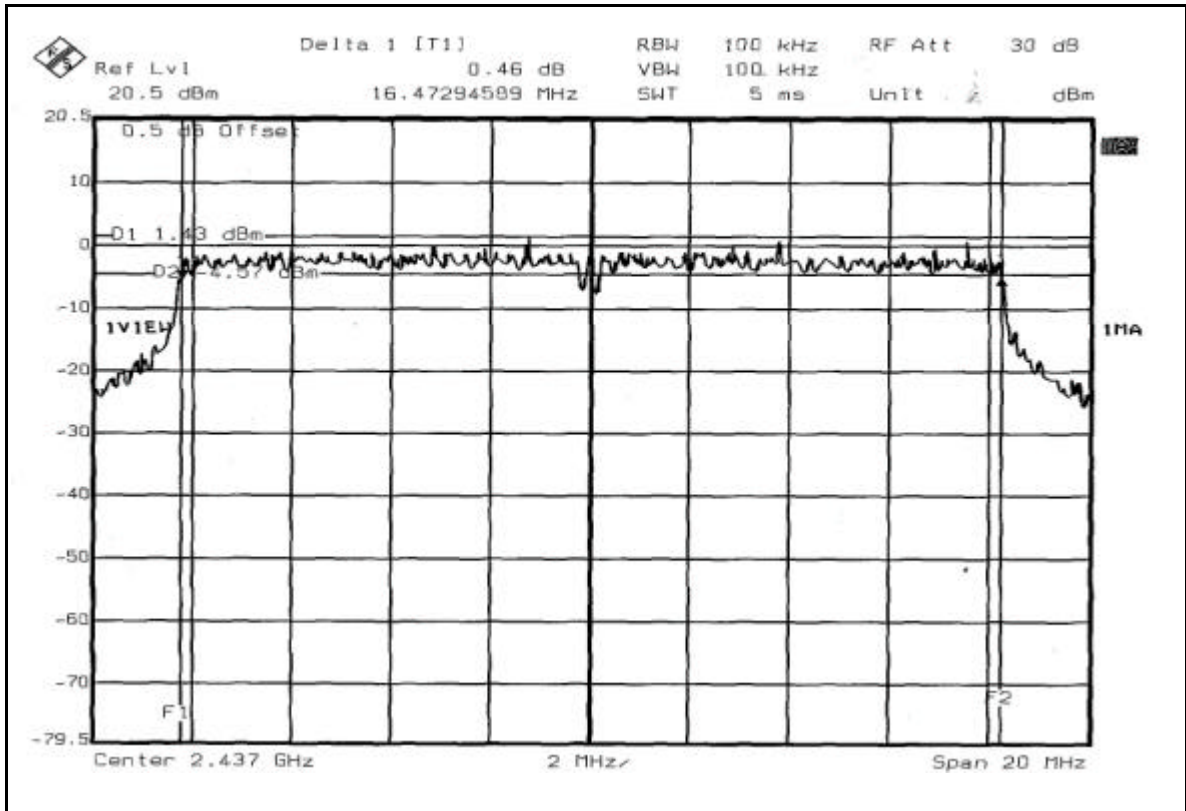
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.39	0.5	PASS
6	2437	16.47	0.5	PASS
11	2462	16.43	0.5	PASS



CH1

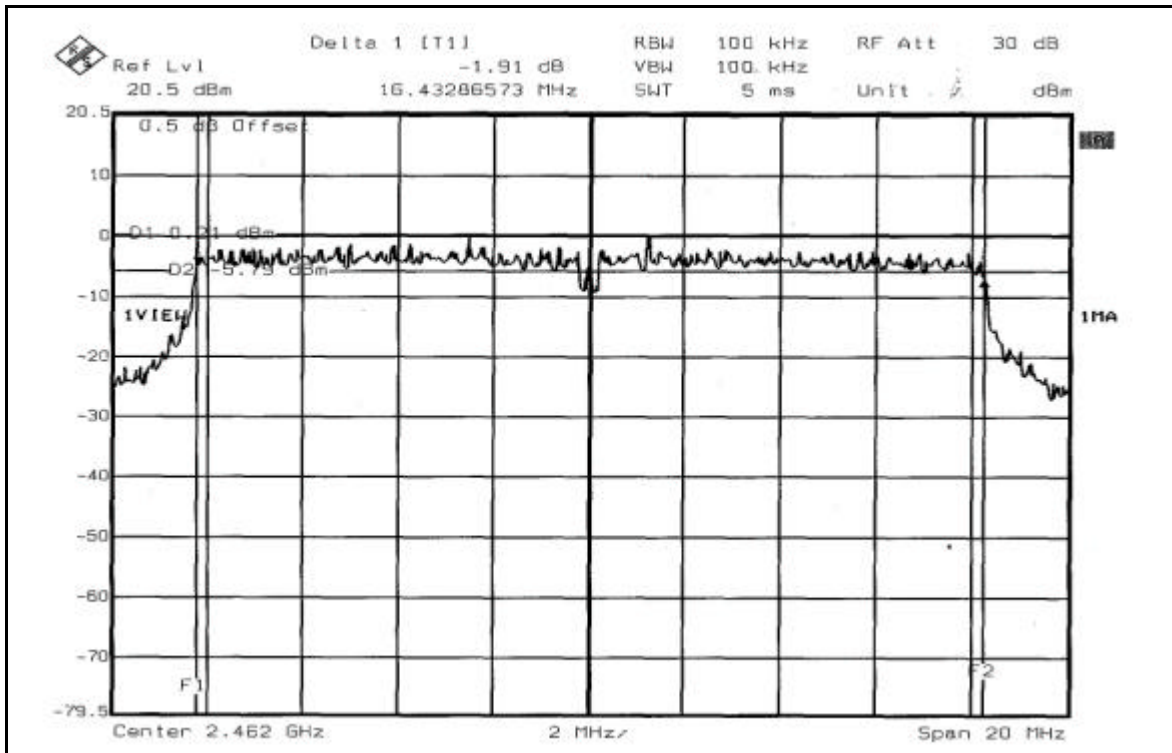


CH6





CH11





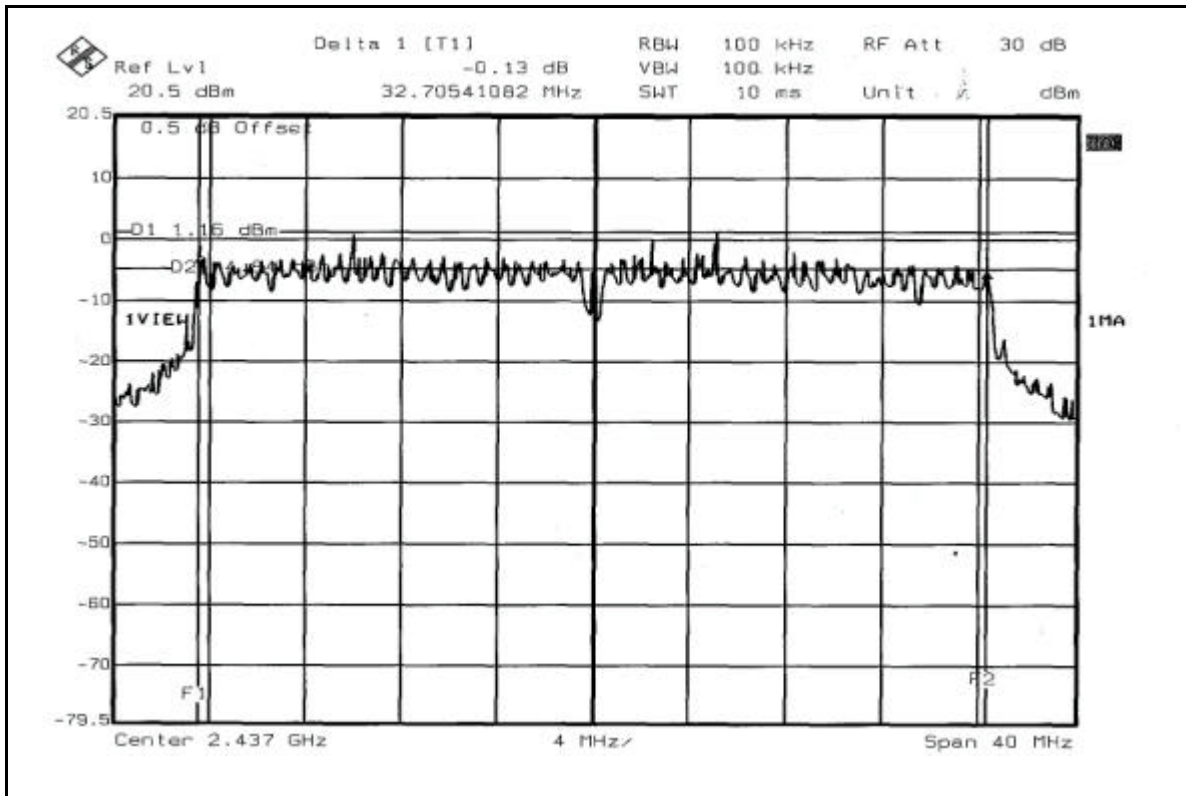
802.11g Turbo OFDM modulation

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
6	2437	32.71	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
TEKTRONIX OSCILLOSCOPE	TDS 1012	C019167	Feb. 01, 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	Wireless A/G USB Adapter	MODEL	F6D3050
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	41.495	16.18	30	PASS
6	2437	41.591	16.19	30	PASS
11	2462	40.926	16.12	30	PASS

**802.11g OFDM modulation**

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.769	15.02	30	PASS
6	2437	41.783	16.21	30	PASS
11	2462	32.734	15.15	30	PASS

802.11g Turbo OFDM modulation

EUT	Wireless A/G USB Adapter	MODEL	F6D3050
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
6	2437	33.266	15.22	30	PASS