

FCC TEST REPORT

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 MODEL NO.: F5D7051
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 TESTED: Apr. 04 ~ Apr. 22, 2005
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ISSUED BY: Advance Data Technology Corporation

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1. CERTIFICATION

PRODUCT:	Belkin High-Speed Mode Wireless G USB Network Adapter
BRAND NAME:	Belkin
MODEL NO.:	F5D7051
TEST SAMPLE:	ENGINEERING SAMPLE
TESTED:	Apr. 04 ~ Apr. 22, 2005
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	:	JoHica Reng (Jessica Cheng)		DATE:_	Apr. 26, 2005
TECHNICAL ACCEPTANCE Responsible for RF	·	Gary Chang		DATE:	Apr. 26, 2005
APPROVED BY	: (Cody	Chang, Deputy Manag	↓, Jer)	DATE:_	Apr. 26, 2005



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					
			Meet the requirement of limit.					
15.207	AC Power Conducted Emission	PASS	Minimum passing margin is –21.53dB at 0.228MHz					
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.					
	Radiated Emissions		Meet the requirement of limit.					
15.247(d)	Limit: Table 15.209	PASS	Minimum passing margin is –3.21dB at 284.65MHz					
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
	30MHz ~ 200MHz	3.73 dB
Radiated emissions	200MHz ~1000MHz	3.74 dB
Radiated emissions	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Belkin High-Speed Mode Wireless G USB Network
	Adapter
MODEL NO.	F5D7051
POWER SUPPLY	5Vdc 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
IRANSFER RATE	802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	63.973mW
ANTENNA TYPE	Sleeve antenna with 1dBi gain
DATA CABLE	1.4 m shielded cable
I/O PORTS	USB
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.

- 2. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
- 3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



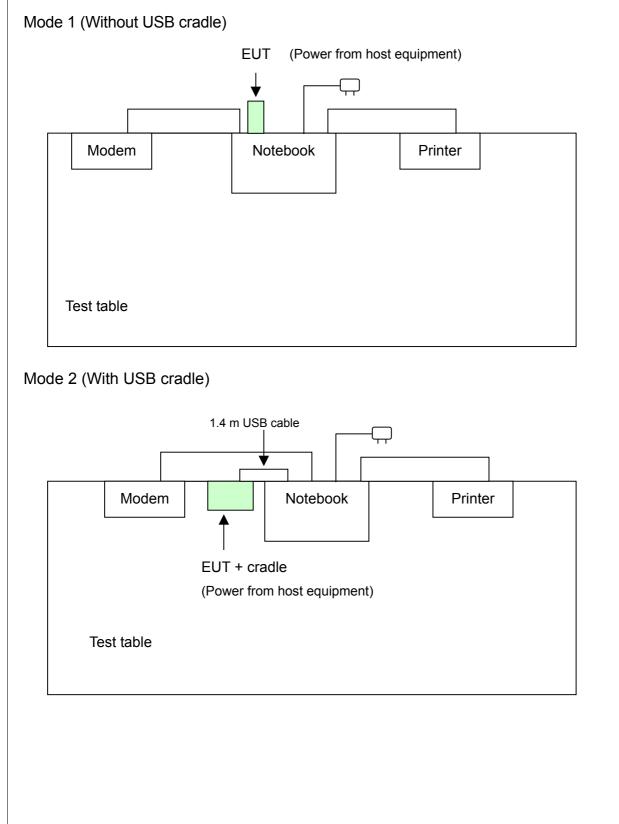
3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

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



3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

C	EUT configure		Applic	able to		Description
	mode	PLC	RE<1G	RE≥1G	APCM	Decemption
	1	Х	Х	Note 1	Note 2	EUT tested without USB cradle
	2	Х	Х	Note 1	Note 2	EUT tested with 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: Pre-scan shown cradle has no effect on Radiated Emission above 1GHz. Note2: 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.

EUT configure mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
1	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
2	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.

EUT configure mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
1	802.11g	1 to 11	1	OFDM	BPSK	6
2	802.11g	1 to 11	1	OFDM	BPSK	6

Radiated Emission Test (Above 1 GHz):

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

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

EUT configure mode	Mode	Available Channel	hotaol	Modulation Technology	Modulation	Data Rate (Mbps)
1	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
1	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6



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

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



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Belkin High-Speed Mode Wireless G USB Network 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	9954115984	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY054147	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	1.2 m shielded cable without core
3	1.2 m shielded cable without core

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



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15-0.5 0.5-5	66 to 56 56	56 to 46 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	ESCS30	100291	Nov. 16, 2005
ROHDE & SCHWARZ	E3C330	100291	NUV. 10, 2005
RF SIGNAL CABLE	5D-FB	Cable-HYC01-01	Jan. 09, 2006
WOKEN	<u>э</u> р-гр		Jan. 09, 2000
LISN	ESH3-Z5	100312	Eab 15 2006
ROHDE & SCHWARZ	E3H3-25	100312	Feb. 15, 2006
LISN	ESH2-Z5	100104	Lob 15 2006
ROHDE & SCHWARZ	E9U7-72	100104	Feb. 15, 2006
SOFTWARE	ADT Cond V/2	NA	NA
ADT	ADT_Cond_V3	INA	INA

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.

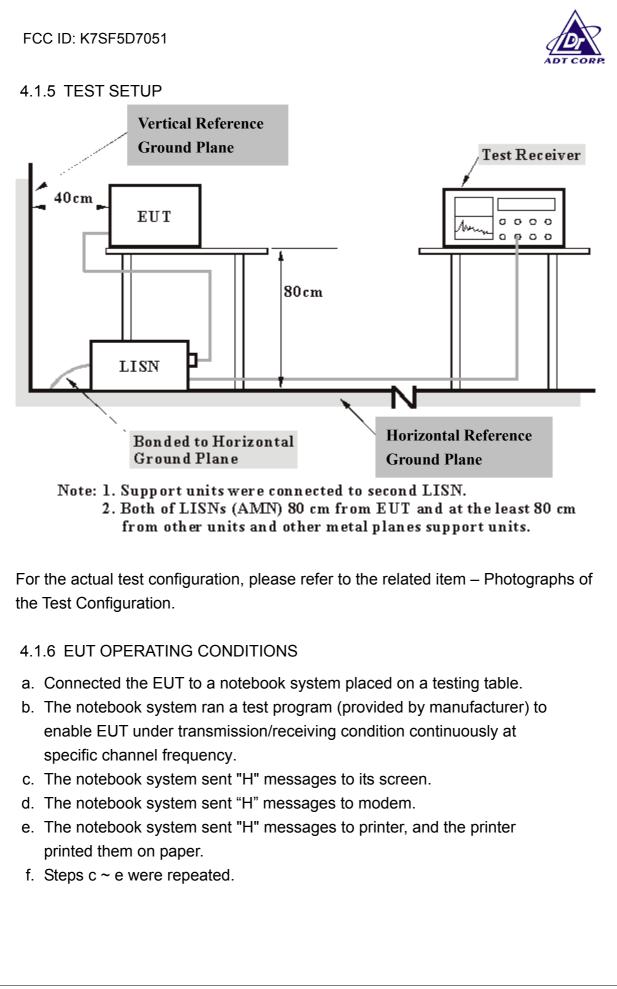


4.1.3 TEST PROCEDURES

- 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





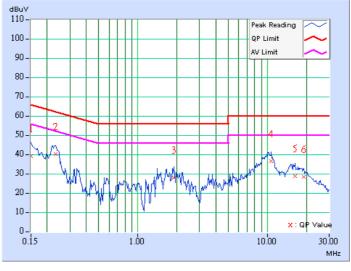
4.1.7 TEST RESULTS

Conducted Worst-Case Data (Without USB cradle)

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	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			
TEST MODE	1	TESTED BY	Gary Chang			

	Freq.	Corr.	Rea Va	ding lue	Emis Le	sion vel	Limit		Margin	
No		Factor	[dB((uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	38.30	-	38.41	-	66.00	56.00	-27.59	-
2	0.232	0.11	39.30	-	39.41	-	62.38	52.38	-22.97	-
3	1.910	0.26	27.09	-	27.35	-	56.00	46.00	-28.65	-
4	10.742	0.54	35.65	-	36.19	-	60.00	50.00	-23.81	-
5	16.316	0.68	27.84	-	28.52	-	60.00	50.00	-31.48	-
6	19.008	0.93	27.68	-	28.61	-	60.00	50.00	-31.39	-

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

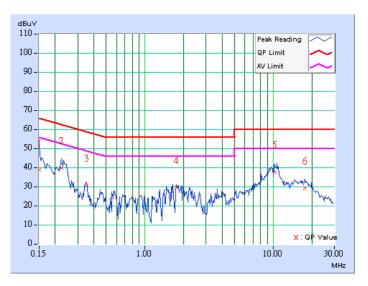




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	PHASE	Line 2			
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa			
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
TEST MODE	1	TESTED BY	Gary Chang			

	Freq.	Corr.	Reading Value		Emission Level Limit M		Limit		Mar	gin
No		Factor	[dB((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	38.14	-	38.25	_	66.00	56.00	-27.75	-
2	0.224	0.11	39.25	-	39.36	-	62.66	52.66	-23.30	-
3	0.349	0.11	30.02	-	30.13	-	58.98	48.98	-28.85	-
4	1.754	0.26	28.99	-	29.25	-	56.00	46.00	-26.75	-
5	10.293	0.44	37.01	-	37.45	-	60.00	50.00	-22.55	-
6	17.594	0.60	28.54	-	29.14	-	60.00	50.00	-30.86	-

- 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.

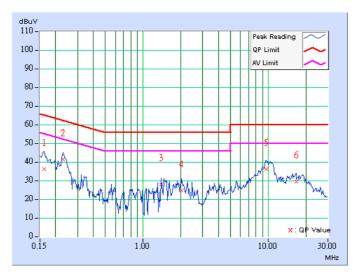




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	PHASE	Line 1			
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa			
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
TEST MODE	1	TESTED BY	Gary Chang			

	Freq.	Corr.	Reading Value		Emission Level Limit N		Limit		Mar	gin
No		Factor	[dB((uV)]	[dB((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.11	35.53	-	35.64	_	65.38	55.38	-29.74	-
2	0.228	0.11	40.88	-	40.99	-	62.52	52.52	-21.53	-
3	1.402	0.25	27.28	-	27.53	-	56.00	46.00	-28.47	-
4	2.039	0.26	24.17	-	24.43	-	56.00	46.00	-31.57	-
5	9.641	0.53	35.53	-	36.06	-	60.00	50.00	-23.94	-
6	16.727	0.72	28.77	-	29.49	-	60.00	50.00	-30.51	-

- 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.

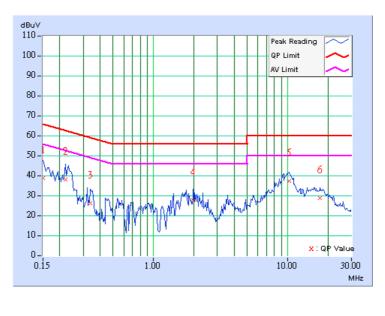




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	PHASE	Line 2			
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa			
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
TEST MODE	1	TESTED BY	Gary Chang			

	Freq.	Corr.	Reading Value		Emis Lev	sion vel	Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB	(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	38.32	-	38.43	-	66.00	56.00	-27.57	-
2	0.220	0.11	37.53	-	37.64	-	62.81	52.81	-25.17	-
3	0.338	0.11	25.86	-	25.97	-	59.26	49.26	-33.29	-
4	1.988	0.26	27.18	-	27.44	-	56.00	46.00	-28.56	-
5	10.301	0.44	36.68	-	37.12	-	60.00	50.00	-22.88	-
6	17.555	0.59	28.15	-	28.74	-	60.00	50.00	-31.26	-

- 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.

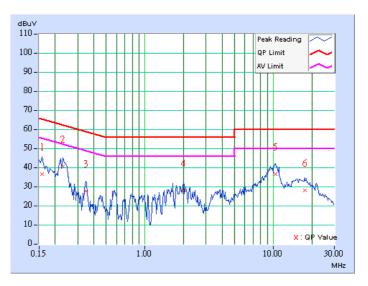




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	PHASE	Line 1			
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa			
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
TEST MODE	1	TESTED BY	Gary Chang			

	Freq.	Corr.	Reading Value		Emis Lev		Lir	nit	Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB	(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.11	35.91	-	36.02	-	65.58	55.58	-29.56	-
2	0.228	0.11	40.02	-	40.13	-	62.52	52.52	-22.39	-
3	0.345	0.11	26.84	-	26.95	-	59.07	49.07	-32.12	-
4	2.012	0.26	27.51	-	27.77	-	56.00	46.00	-28.23	-
5	10.465	0.54	35.77	-	36.31	-	60.00	50.00	-23.69	-
6	17.578	0.80	27.35	-	28.15	-	60.00	50.00	-31.85	-

- 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.

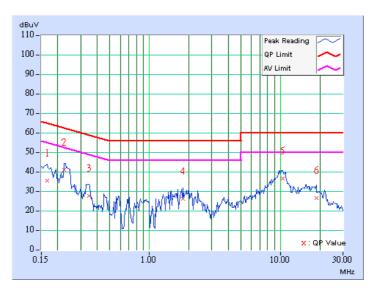




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL					
MODEL	F5D7051	PHASE	Line 2				
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz				
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa				
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz				
TEST MODE	1	TESTED BY	Gary Chang				

	Freq.	Corr.	Reading Value		Emis Lev	sion vel	Limit		Margin	
No		Factor	[dB (uV)]		[dB ((uV)]	[dB	(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.11	35.01	-	35.12	-	65.18	55.18	-30.06	-
2	0.224	0.11	40.38	-	40.49	-	62.66	52.66	-22.17	-
3	0.345	0.11	26.96	-	27.07	-	59.07	49.07	-32.00	-
4	1.813	0.26	25.51	-	25.77	-	56.00	46.00	-30.23	-
5	10.480	0.44	35.83	-	36.27	-	60.00	50.00	-23.73	-
6	18.824	0.66	26.09	-	26.75	-	60.00	50.00	-33.25	-

- 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.



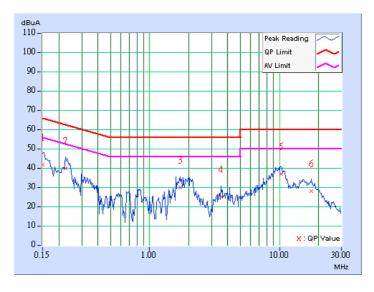


Conducted Worst-Case Data (With USB cradle)

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	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			
TEST MODE	2	TESTED BY	Gary Chang			

	Freq.	Corr.	Reading Value		Emission Level		Lir	nit	Margin	
No		Factor	[dB (uV)]		[dB((uV)]	[dB	(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	41.02	-	41.13	-	66.00	56.00	-24.87	-
2	0.224	0.11	39.27	-	39.38	-	62.66	52.66	-23.28	-
3	1.715	0.25	29.16	-	29.41	-	56.00	46.00	-26.59	-
4	3.555	0.36	24.49	-	24.85	-	56.00	46.00	-31.15	-
5	10.262	0.54	36.39	-	36.93	-	60.00	50.00	-23.07	-
6	17.641	0.80	27.49	-	28.29	-	60.00	50.00	-31.71	-

- 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.

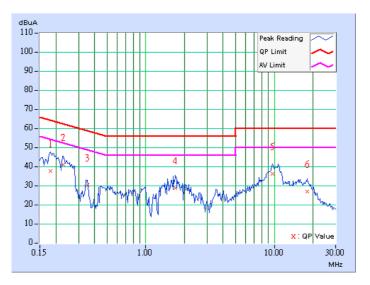




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL				
MODEL	F5D7051	PHASE	Line 2			
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz			
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa			
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz			
TEST MODE	2	TESTED BY	Gary Chang			

	Freq.	Corr.	Reading Value		Emis Lev		Lir	nit	Margin		
No		Factor	[dB (uV)]		[dB ((uV)]	[dB	(uV)]	(dl	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.181	0.11	36.99	-	37.10	_	64.43	54.43	-27.33	-	
2	0.228	0.11	40.38	-	40.49	-	62.52	52.52	-22.03	-	
3	0.353	0.11	29.92	-	30.03	-	58.89	48.89	-28.86	-	
4	1.699	0.25	28.40	-	28.65	-	56.00	46.00	-27.35	-	
5	9.695	0.44	35.85	-	36.29	-	60.00	50.00	-23.71	-	
6	18.129	0.63	26.50	-	27.13	-	60.00	50.00	-32.87	-	

- 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.

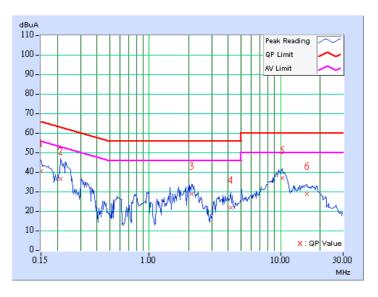




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL					
MODEL	F5D7051	PHASE	Line 1				
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz				
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa				
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz				
TEST MODE	2	TESTED BY	Gary Chang				

	Freq.	Corr.	Reading Value		Emis Le ^v		Limit		Margin	
No		Factor	[dB (uV)]		[dB((uV)]	[dB	(uV)]	uV)] (dE	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	40.29	-	40.40	_	66.00	56.00	-25.60	-
2	0.213	0.11	35.92	-	36.03	-	63.11	53.11	-27.08	-
3	2.113	0.27	28.29	-	28.56	-	56.00	46.00	-27.44	-
4	4.188	0.39	21.34	-	21.73	-	56.00	46.00	-34.27	-
5	10.367	0.54	36.39	-	36.93	-	60.00	50.00	-23.07	-
6	15.801	0.63	28.14	-	28.77	-	60.00	50.00	-31.23	-

- 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.

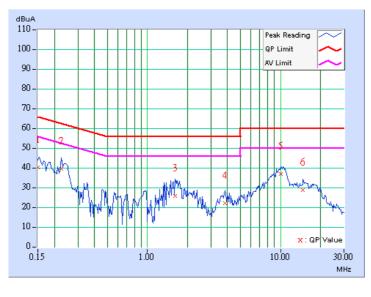




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL			
MODEL	F5D7051	PHASE	Line 2		
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz		
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TEST MODE	2	TESTED BY	Gary Chang		

	Freq.	Corr.	Rea Va	ding lue	Emis Lev		Limit		Margin	
No		Factor	[dB((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	39.85	-	39.96	-	66.00	56.00	-26.04	-
2	0.224	0.11	39.35	-	39.46	-	62.66	52.66	-23.20	-
3	1.613	0.25	25.53	-	25.78	-	56.00	46.00	-30.22	-
4	3.844	0.38	21.90	-	22.28	-	56.00	46.00	-33.72	-
5	10.012	0.44	36.57	-	37.01	-	60.00	50.00	-22.99	-
6	14.684	0.45	28.45	-	28.90	-	60.00	50.00	-31.10	-

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

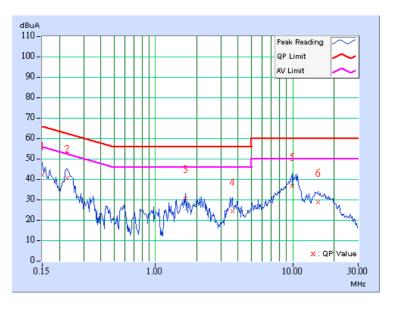




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL			
MODEL	F5D7051	PHASE	Line 1		
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz		
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TEST MODE	2	TESTED BY	Gary Chang		

	Freq.	Corr.	Rea Va	-	Emis Lev	sion vel	Limit		Margin	
No		Factor	[dB((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	41.70	-	41.81	-	66.00	56.00	-24.19	-
2	0.228	0.11	40.02	-	40.13	-	62.52	52.52	-22.39	-
3	1.652	0.25	30.28	-	30.53	-	56.00	46.00	-25.47	-
4	3.645	0.37	23.98	-	24.35	-	56.00	46.00	-31.65	-
5	9.918	0.54	36.08	-	36.62	-	60.00	50.00	-23.38	-
6	15.223	0.57	28.43	-	29.00	-	60.00	50.00	-31.00	-

- 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.

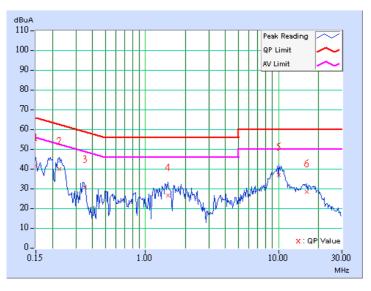




EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL			
MODEL	F5D7051	PHASE	Line 2		
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz		
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TEST MODE	2	TESTED BY	Gary Chang		

	Freq.	Corr.	Rea Va	-	Emis Le ^v	sion vel	Limit		Margin	
No		Factor	[dB((uV)]	[dB((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	41.20	-	41.31	-	66.00	56.00	-24.69	-
2	0.224	0.11	39.31	-	39.42	-	62.66	52.66	-23.24	-
3	0.351	0.11	30.17	-	30.28	-	58.95	48.95	-28.67	-
4	1.480	0.25	25.98	-	26.23	-	56.00	46.00	-29.77	-
5	10.027	0.44	36.67	-	37.11	-	60.00	50.00	-22.89	-
6	16.332	0.52	27.86	-	28.38	-	60.00	50.00	-31.62	-

- 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	ESIB7	100188	DEC. 19, 2005	
ROHDE & SCHWARZ	LOIDY	100100	DEC. 19, 2003	
SPECTRUM ANALYZER	FSP40	100039	NOV. 21, 2005	
ROHDE & SCHWARZ	1 31 40	100039	NOV. 21, 2003	
BILOG ANTENNA	VULB9168	9168-157	JAN. 22, 2006	
SCHWARZBECK	VOLD9100	9100-157	JAN. 22, 2000	
HORN ANTENNA	BBHA 9120 D	9120D-407	JAN. 16, 2006	
SCHWARZBECK	DDI IA 9120 D	91200-407	JAN. 10, 2000	
HORN ANTENNA	BBHA 9170	BBHA 9170241	FEB. 23, 2006	
SCHWARZBECK	DDIA 9170	DDIA 9170241	TED. 23, 2000	
PREAMPLIFIER	8449B	3008A01961	NOV. 09, 2005	
AGILENT	04430	3000401301	100 1. 03, 2003	
PREAMPLIFIER	8447D	2944A10629	NOV. 09, 2005	
AGILENT	04470	2344/10023	1000.03,2003	
RF SIGNAL CABLE	SUCOFLEX 104	218182/4	FEB. 17, 2006	
HUBER+SUHNER	SOCOLECK 104	210102/4	TED. 17, 2000	
RF SIGNAL CABLE	SUCOFLEX 104	218194/4	FEB. 17, 2006	
HUBER+SUHNER	SOCOLECK 104	210134/4	TED. 17, 2000	
SOFTWARE	ADT_RADIATED_V5.1	NA	NA	
ADT.	4			
ANTENNA TOWER	AT100	AT93021702	NA	
ADT.	ATTO	A195021702	NA .	
TURN TABLE	TT100.	TT93021702	NA	
ADT.	11100.	1133021702	ראר	
CONTROLLER	SC100.	SC93021702	NA	
ADT.	00100.	0030021702		

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

NOTE:

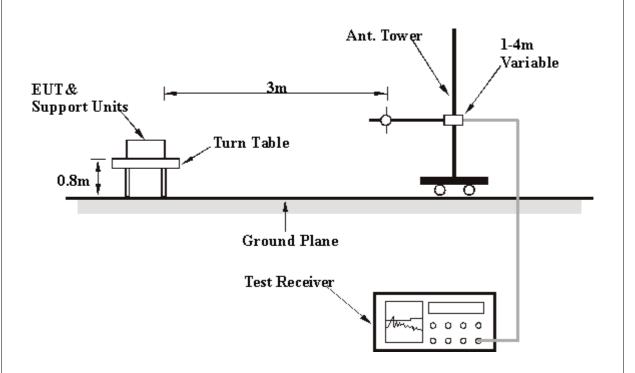
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1kHz 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 (Without USB cradle)

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL			
MODEL	F5D7051	FREQUENCY RANGE	Below 1000MHz		
CHANNEL	Channel 1	DETECTOR FUNCTION	Quasi-Peak		
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TEST MODE	1	TESTED BY	Match Tsui		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	(MHz)	Level	(dPu)/(m)	-	Height	Angle	Value	Factor
	(IVIFIZ)	(dBuV/m)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)	
1	123.31	32.53 QP	43.50	-10.97	1.50 H	58	19.49	13.03
2	171.90	32.43 QP	43.50	-11.07	1.50 H	274	18.94	13.50
3	348.80	30.51 QP	46.00	-15.49	1.00 H	256	15.08	15.43
4	414.89	33.37 QP	46.00	-12.63	1.00 H	268	16.35	17.02
5	609.28	37.30 QP	46.00	-8.70	1.00 H	79	16.28	21.02
6	799.78	30.93 QP	46.00	-15.07	1.00 H	103	7.23	23.70

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.		Level	-	-	Height	Angle	Value	Factor
	(MHz)	(dBuV/m)	(ubuv/iii)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)
1	61.10	27.11 QP	40.00	-12.89	1.25 V	175	13.78	13.33
2	125.25	29.62 QP	43.50	-13.88	1.50 V	358	16.45	13.17
3	166.07	35.40 QP	43.50	-8.10	1.00 V	331	21.34	14.07
4	265.21	35.60 QP	46.00	-10.40	1.50 V	229	22.15	13.45
5	399.34	29.66 QP	46.00	-16.34	1.75 V	184	13.04	16.62
6	593.73	32.00 QP	46.00	-14.00	1.50 V	112	11.26	20.73

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 (With USB cradle)

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL			
MODEL	F5D7051	FREQUENCY RANGE	Below 1000MHz		
CHANNEL	Channel 1	DETECTOR FUNCTION	Quasi-Peak		
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa		
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TEST MODE	2	TESTED BY	Match Tsui		

	ANTENN	A POLARIT	Y & TES	ST DIST	ANCE: H	IORIZON	ITAL AT 3	B M
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	•	Level	(dBuV/m)	-	Height	Angle	Value	Factor
	(MHz)	(dBuV/m)	(ubuv/iii)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)
1	134.97	33.86 QP	43.50	-9.64	1.75 H	238	20.00	13.86
2	168.02	31.16 QP	43.50	-12.34	1.25 H	34	17.28	13.88
3	224.39	36.96 QP	46.00	-9.04	1.25 H	169	25.06	11.91
4	284.65	42.79 QP	46.00	-3.21	1.00 H	295	28.67	14.12
5	342.97	31.26 QP	46.00	-14.74	1.00 H	43	15.96	15.30
6	440.16	30.95 QP	46.00	-15.05	1.75 H	91	13.29	17.66
7	480.98	31.29 QP	46.00	-14.71	1.50 H	343	12.96	18.33
8	599.56	34.89 QP	46.00	-11.11	1.50 H	256	14.00	20.88
9	646.21	36.22 QP	46.00	-9.78	1.50 H	10	14.69	21.53
10	706.47	36.14 QP	46.00	-9.86	1.25 H	46	13.74	22.40
11	764.79	33.18 QP	46.00	-12.82	1.75 H	10	9.68	23.50

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	49.44	27.72 QP	40.00	-12.28	1.25 V	172	13.18	14.53		
2	166.07	32.30 QP	43.50	-11.20	1.00 V	253	18.24	14.07		
3	224.39	31.38 QP	46.00	-14.62	1.25 V	328	19.48	11.91		
4	284.65	31.44 QP	46.00	-14.56	1.50 V	340	17.32	14.12		
5	607.33	31.93 QP	46.00	-14.07	1.50 V	340	10.94	21.00		
6	646.21	35.29 QP	46.00	-10.71	1.50 V	358	13.76	21.53		
7	706.47	35.22 QP	46.00	-10.78	1.25 V	40	12.83	22.40		
8	764.79	32.38 QP	46.00	-13.62	1.00 V	235	8.88	23.50		

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	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL		
MODEL	F5D7051	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)	
MODULATION TYPE	сск	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa	
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Match Tsui			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.		Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor		
(MHz)	(10112)	(dBuV/m)	(ubuv/iii)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)		
1	2390.00	53.95 PK	74.00	-20.05	1.04 H	195	22.98	30.97		
1	2390.00	45.41 AV	54.00	-8.59	1.04 H	195	14.44	30.97		
2	*2412.00	112.20 PK			1.04 H	195	81.14	31.06		
2	*2412.00	105.04 AV			1.04 H	195	73.98	31.06		
3	4874.00	48.51 PK	74.00	-25.49	1.11 H	150	11.97	36.54		
3	4874.00	42.80 AV	54.00	-11.20	1.11 H	150	6.26	36.54		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	•	Level	(dBuV/m)	•	Height	Angle	Value	Factor		
(MHz)	(IVITZ)	(dBuV/m)	(ubuv/iii)) (dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	2390.00	53.47 PK	74.00	-20.53	1.02 V	147	22.50	30.97		
1	2390.00	44.31 AV	54.00	-9.69	1.02 V	147	13.34	30.97		
2	*2412.00	106.41 PK			1.02 V	147	75.35	31.06		
2	*2412.00	99.77 AV			1.02 V	147	68.71	31.06		
3	4824.00	47.77 PK	74.00	-26.23	1.16 V	180	11.34	36.43		
3	4824.00	41.40 AV	54.00	-12.60	1.16 V	180	4.97	36.43		

REMARKS:

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

4. Margin value = Emission level – Limit value.

5. " * " : Fundamental frequency



EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL		
MODEL	F5D7051	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)	
MODULATION TYPE	ССК	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa	
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
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			1.02 H	193	79.46	31.17		
1	*2437.00	103.20 AV			1.02 H	193	72.03	31.17		
2	4874.00	48.62 PK	74.00	-25.38	1.08 H	153	12.08	36.54		
2	4874.00	42.88 AV	54.00	-11.12	1.08 H	153	6.34	36.54		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor		
	(10112)	(dBuV/m)	(aba t/m)	(0.2)	(m)	(Degree)	(dBuV)	(dB/m)		
1	*2437.00	106.73 PK			1.32 V	163	75.56	31.17		
1	*2437.00	100.44 AV			1.32 V	163	69.27	31.17		
2	4874.00	48.15 PK	74.00	-25.85	1.21 V	180	11.61	36.54		
2	4874.00	42.42 AV	54.00	-11.58	1.21 V	180	5.88	36.54		

REMARKS:

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



EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL			
MODEL	F5D7051	FREQUENCY RANGE	1 ~ 25GHz		
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)		
MODULATION TYPE	ССК	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa		
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TESTED BY	Match Tsui				

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	•	Level	-	-	Height	Angle	Value	Factor		
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	*2462.00	111.13 PK			1.00 H	194	79.85	31.28		
1	*2462.00	103.66 AV			1.00 H	194	72.38	31.28		
2	2483.50	54.39 PK	74.00	-19.61	1.00 H	194	23.02	31.37		
2	2483.50	46.69 AV	54.00	-7.31	1.00 H	194	15.32	31.37		
3	4924.00	51.92 PK	74.00	-22.08	1.10 H	15	15.26	36.66		
3	4924.00	47.70 AV	54.00	-6.30	1.10 H	15	11.04	36.66		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq.	Emission	Limit	Margin	Antenna	Table	Raw Value	Correction Factor		
INO.	(MHz)	(MHz) (dBuV/m) (dB)	Height (m)	Angle (Degree)	(dBuV)	(dB/m)				
1	*2462.00	105.45 PK			1.21 V	108	74.17	31.28		
1	*2462.00	98.95 AV			1.21 V	108	67.67	31.28		
2	2483.50	53.24 PK	74.00	-20.76	1.21 V	108	21.87	31.37		
2	2483.50	44.67 AV	54.00	-9.33	1.21 V	108	13.30	31.37		
3	4924.00	48.75 PK	74.00	-25.25	1.06 V	293	12.09	36.66		
3	4924.00	42.14 AV	54.00	-11.86	1.06 V	293	5.48	36.66		

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.

5. " * " : Fundamental frequency



802.11g OFDM modulation

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL		
MODEL	F5D7051	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
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	2390.00	53.92 PK	74.00	-20.08	1.07 H	206	22.95	30.97				
1	2390.00	48.27 AV	54.00	-5.73	1.07 H	206	17.30	30.97				
2	*2412.00	104.45 PK			1.07 H	206	73.39	31.06				
2	*2412.00	98.17 AV			1.07 H	206	67.11	31.06				

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
No.	Freq. (MHz)	Emission	Limit (dBuV/m)	Margin (dB)	Antenna	Table	Raw	Correction				
		Level			Height	Angle	Value	Factor				
		(dBuV/m)			(m)	(Degree)	(dBuV)	(dB/m)				
1	2390.00	53.92 PK	74.00	-20.08	1.34 V	138	22.95	30.97				
1	2390.00	44.65 AV	54.00	-9.35	1.34 V	138	13.68	30.97				
2	*2412.00	101.39 PK			1.34 V	138	70.33	31.06				
2	*2412.00	95.06 AV			1.34 V	138	64.00	31.06				

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	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL		
MODEL	F5D7051	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
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	103.54 PK			1.00 H	187	72.37	31.17	
1	*2437.00	97.63 AV			1.00 H	187	66.46	31.17	
2	4874.00	44.66 PK	74.00	-29.34	1.00 H	292	8.12	36.54	
2	4874.00	31.96 AV	54.00	-22.04	1.00 H	292	-4.58	36.54	

	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	101.23 PK			1.00 V	78	70.06	31.17	
1	*2437.00	93.97 AV			1.00 V	78	62.80	31.17	
2	4874.00	44.76 PK	74.00	-29.24	1.01 V	123	8.22	36.54	
2	4874.00	32.51 AV	54.00	-21.49	1.01 V	123	-4.03	36.54	

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	Belkin High-Speed Mode Wireless G USB Network Adapter	MEASUREMENT DETAIL		
MODEL	F5D7051	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 60%RH, 991hPa	
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
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	105.29 PK			1.01 H	191	74.01	31.28	
1	*2462.00	98.93 AV			1.01 H	191	67.65	31.28	
2	2483.50	57.11 PK	74.00	-16.89	1.01 H	191	25.74	31.37	
2	2483.50	49.58 AV	54.00	-4.42	1.01 H	191	18.21	31.37	

	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	95.85 PK			1.07 V	360	64.57	31.28	
1	*2462.00	88.72 AV			1.07 V	360	57.44	31.28	
2	2483.50	53.13 PK	74.00	-20.87	1.07 V	360	21.76	31.37	
2	2483.50	44.18 AV	54.00	-9.82	1.07 V	360	12.81	31.37	

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.



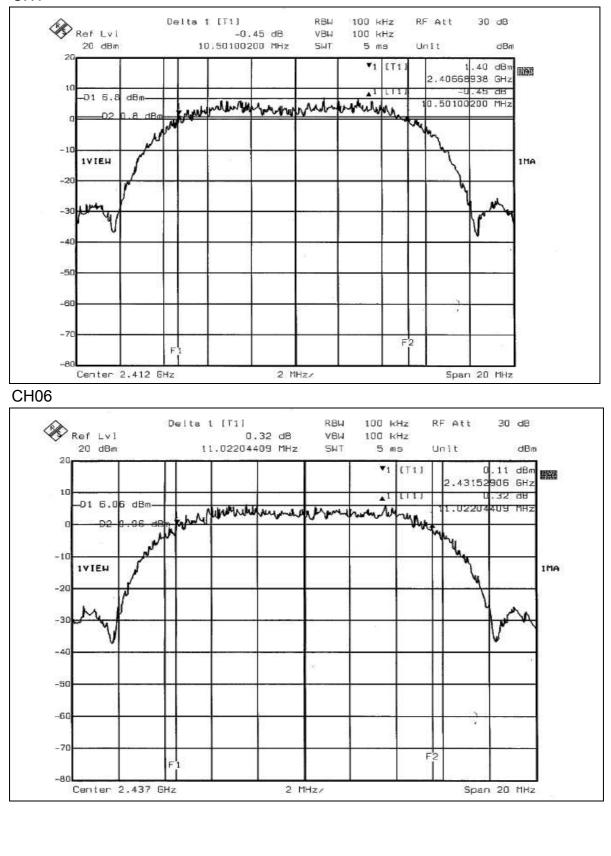
4.3.7 TEST RESULTS

802.11b DSSS modulation

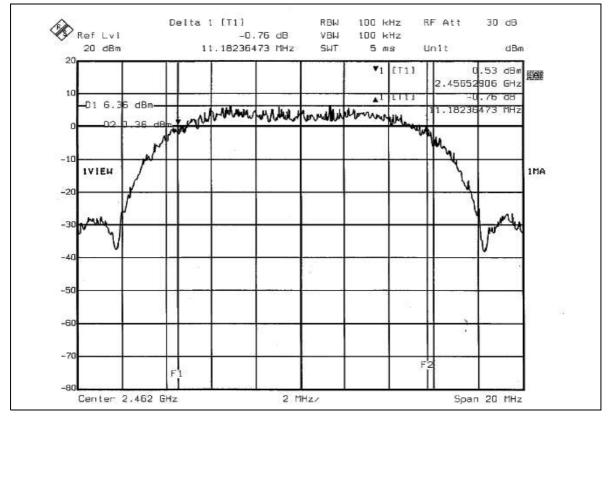
EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MODEL	F5D7051
MODULATION TYPE	сск	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 57%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.50	0.5	PASS
6	2437	11.02	0.5	PASS
11	2462	11.18	0.5	PASS









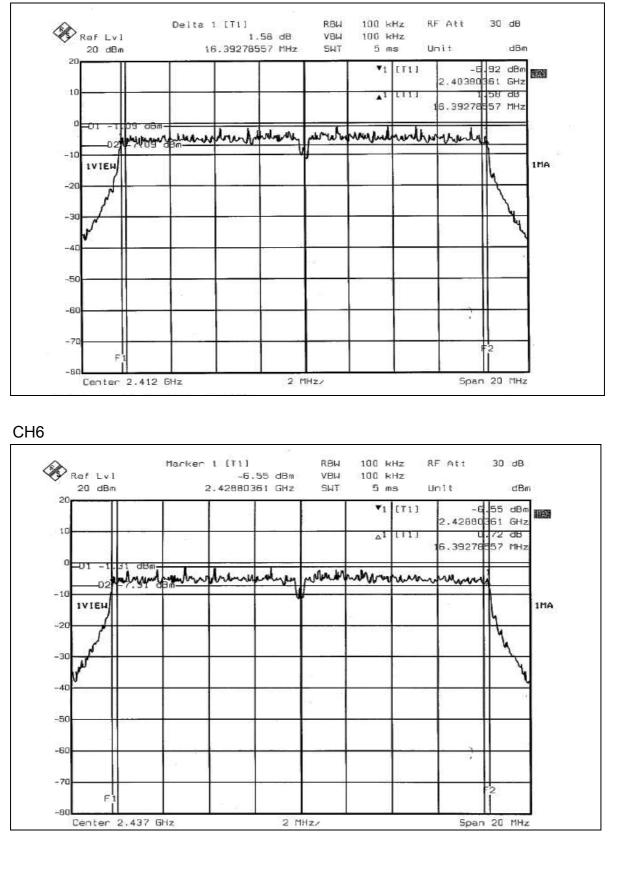


802.11g OFDM modulation

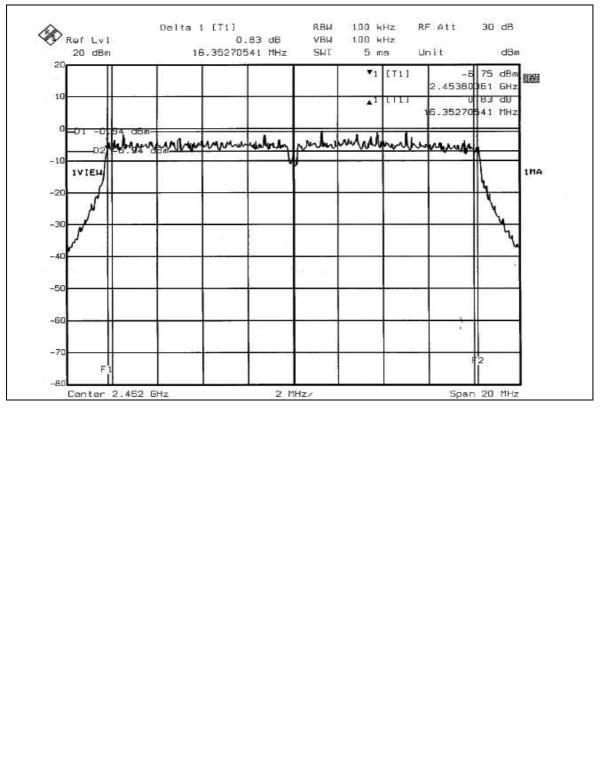
EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MODEL	F5D7051
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 57%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.39	0.5	PASS
6	2437	16.39	0.5	PASS
11	2462	16.35	0.5	PASS











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..

FCC ID: K7SF5D7051 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 OSCILLOSCOPE DETECTOR EUT or S.G 4.4.6 EUT OPERATING CONDITIONS Same as Item 4.3.6



4.4.7 TEST RESULTS

802.11b DSSS modulation

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MODEL	F5D7051
MODULATION TYPE	сск	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 57%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	63.387	18.02	30	PASS
6	2437	63.973	18.06	30	PASS
11	2462	63.533	18.03	30	PASS

802.11g OFDM modulation

EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MODEL	F5D7051
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 57%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	25.293	14.03	30	PASS
6	2437	25.410	14.05	30	PASS
11	2462	25.177	14.01	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



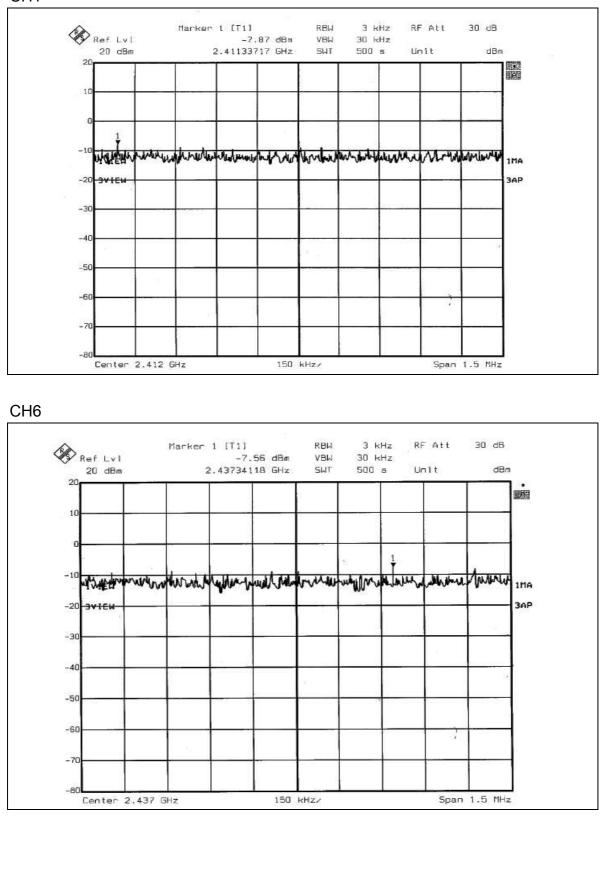
4.5.7 TEST RESULTS

802.11b DSSS modulation

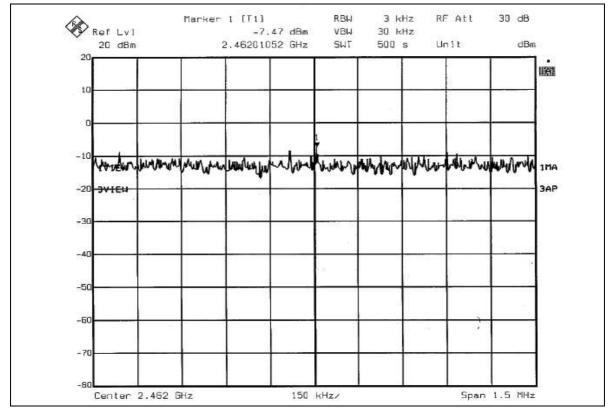
EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MODEL	F5D7051
MODULATION TYPE	ССК	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 57%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.87	8	PASS
6	2437	-7.56	8	PASS
11	2462	-7.47	8	PASS









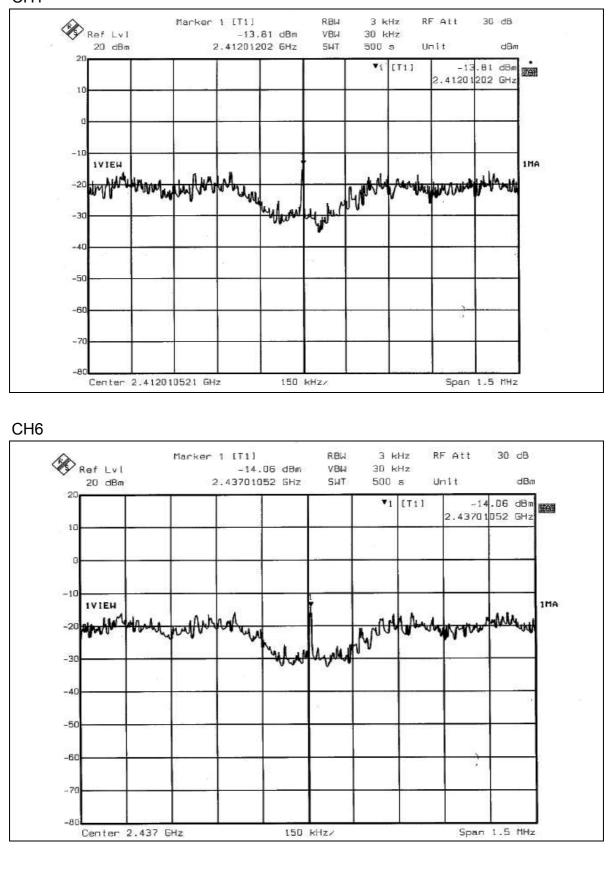


802.11g OFDM modulation

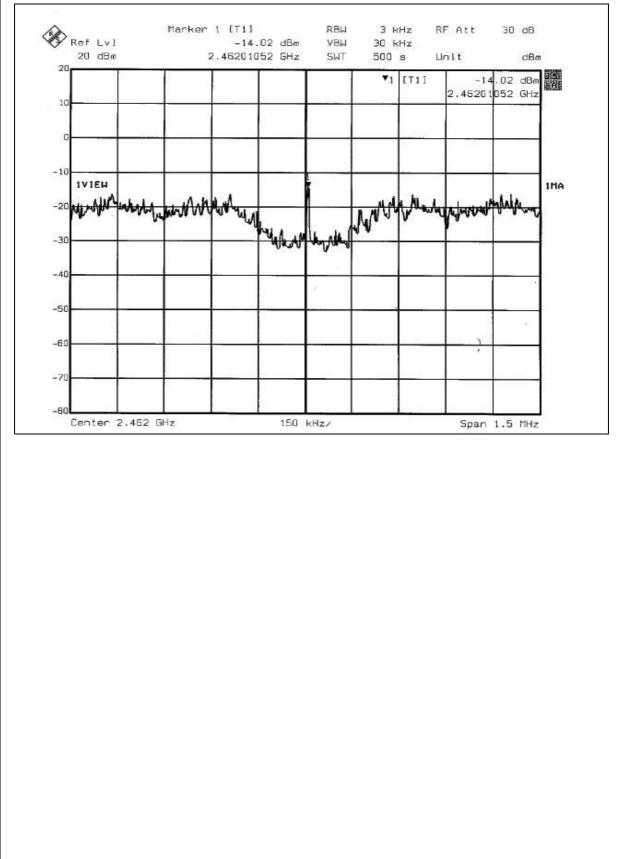
EUT	Belkin High-Speed Mode Wireless G USB Network Adapter	MODEL	F5D7051
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 57%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-13.81	8	PASS
6	2437	-14.06	8	PASS
11	2462	-14.02	8	PASS











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=1kHz) 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).

4.6.7 TEST RESULTS

802.11b DSSS modulation

NOTE 1: The band edge emission plot on page 61 show 58.46dBc delta between carrier maximum power and local maximum emission in restrict band (2.3899GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 112.20dBuV/m (Peak), so the maximum field strength in restrict band is 112.20-58.46=53.74dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 61 show 61.04dBc delta between carrier maximum power and local maximum emission in restrict band (2.3899GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.04dBuV/m (Average), so the maximum field strength in restrict band is 105.04-61.04=44dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the page 62 show 57.86dBc delta between carrier maximum power and local maximum emission in restrict band (2.4865GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.13dBuV/m (Peak), so the maximum field strength in restrict band is 111.13-57.86=53.27dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 63 show 58.54dBc delta between carrier maximum power and local maximum emission in restrict band (2.4849GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.66dBuV/m (Average), so the maximum field strength in restrict band is 103.66-58.54=45.12dBuV/m which is under 54dBuV/m limit.



802.11g OFDM modulation

NOTE 1: The band edge emission plot on page 64 show 45.99dBc 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 104.45dBuV/m (Peak), so the maximum field strength in restrict band is 104.45-45.99=58.46dBuV/m which is under 74dBuV/m limit.

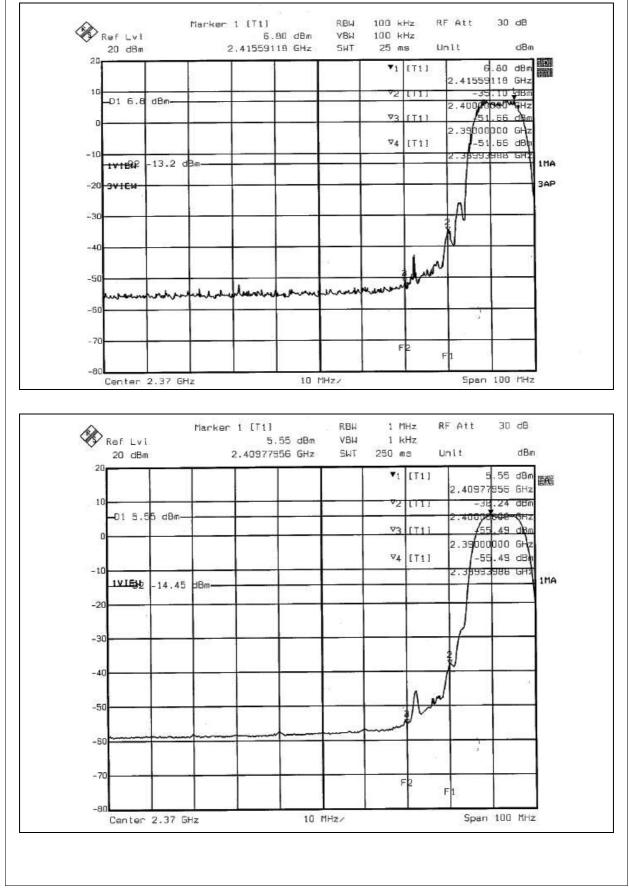
The band edge emission plot on page 64 show 51.24dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 98.17dBuV/m (Average), so the maximum field strength in restrict band is 98.17-51.24=46.93dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 65 show 49.10dBc delta between carrier maximum power and local maximum emission in restrict band (2.4857GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.29dBuV/m (Peak), so the maximum field strength in restrict band is 105.29-49.10=56.19dBuV/m which is under 74dBuV/m limit.

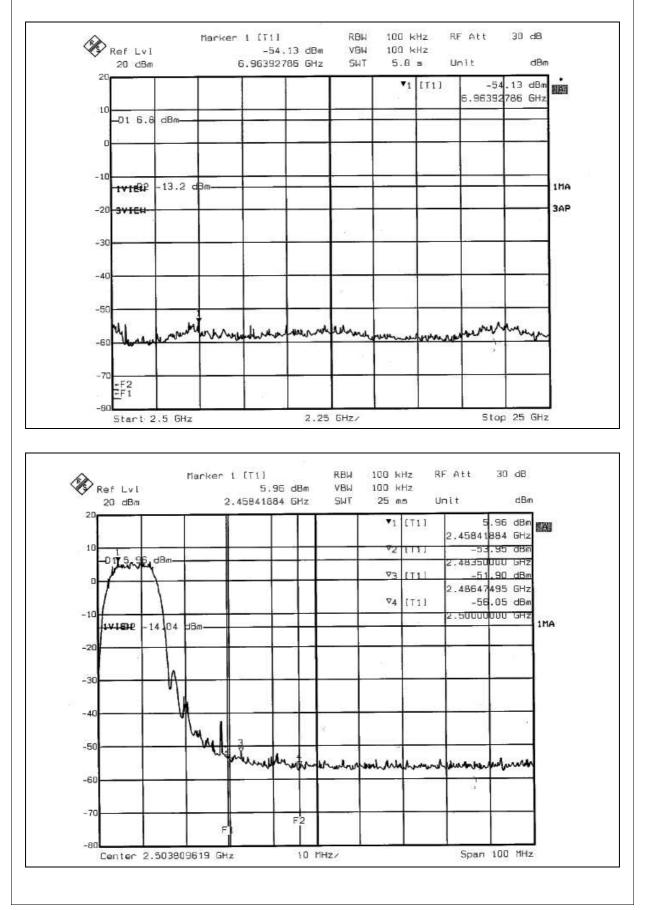
The band edge emission plot on page 66 show 50.00dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.93dBuV/m (Average), so the maximum field strength in restrict band is 98.93-50.00=48.93dBuV/m which is under 54dBuV/m limit.



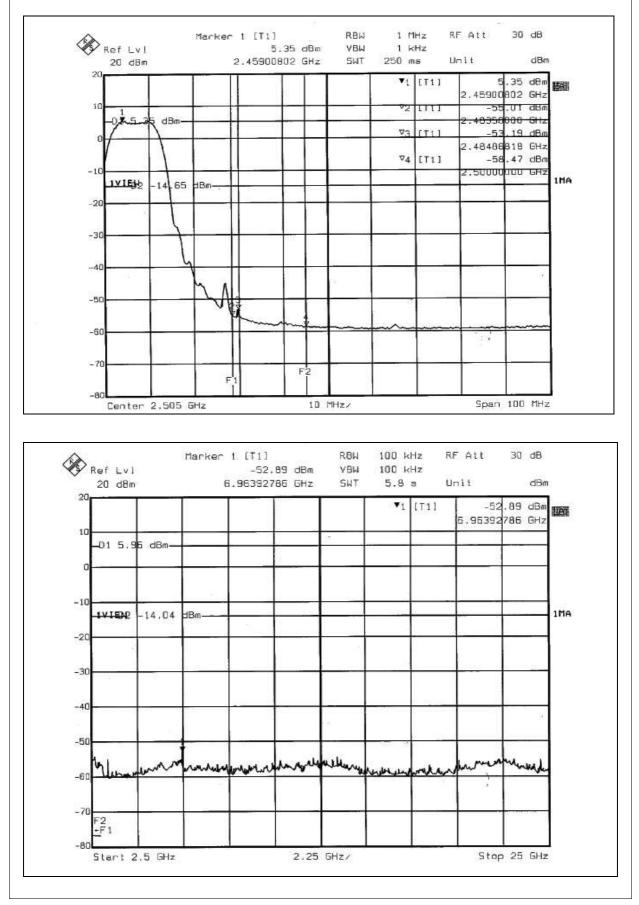
802.11b DSSS modulation





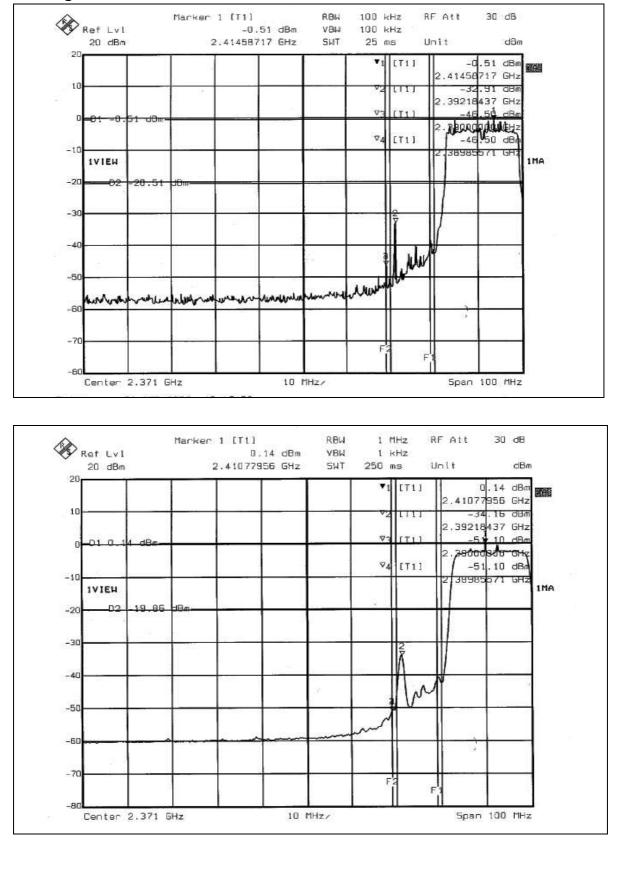




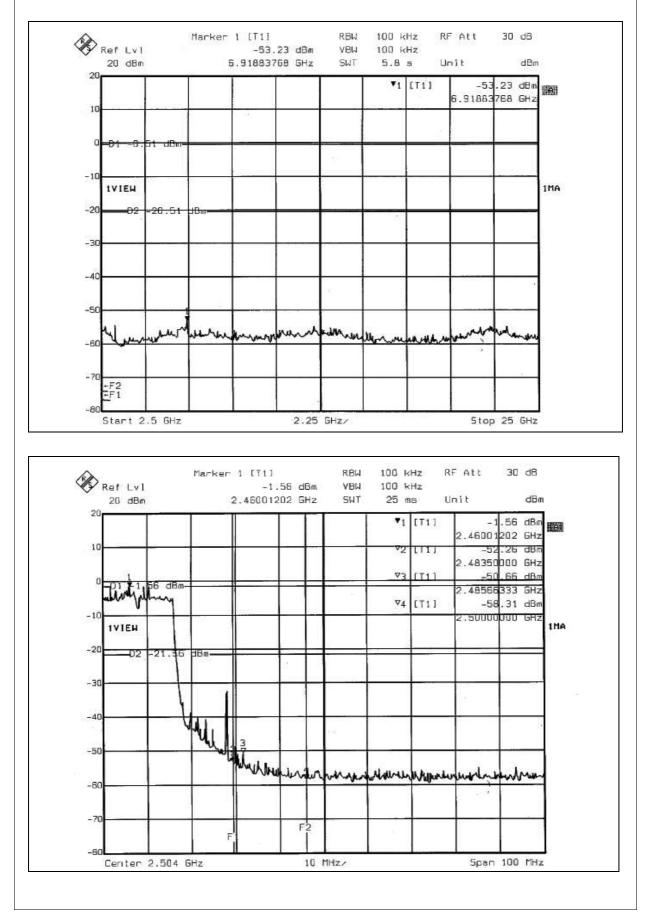




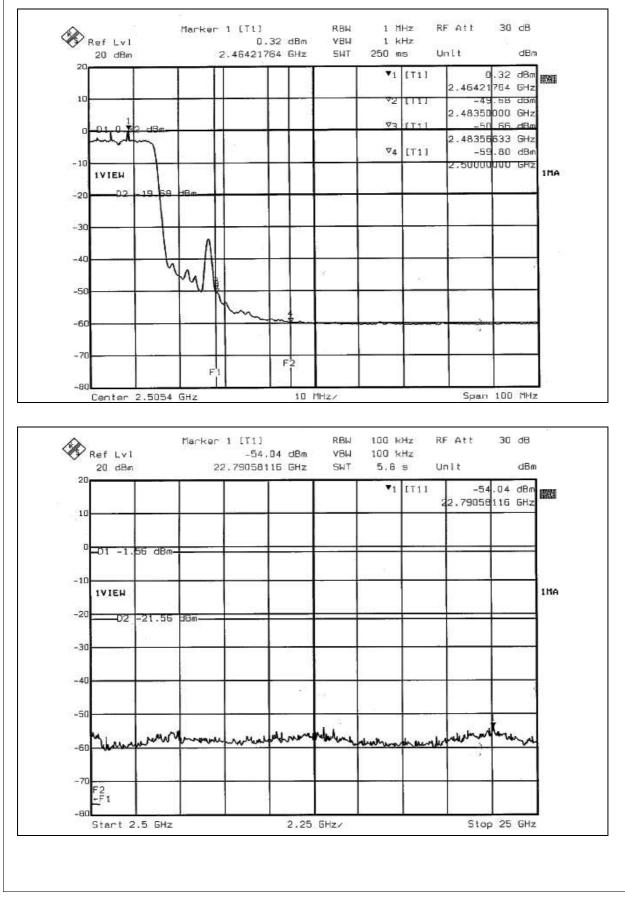
802.11g OFDM modulation













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 Sleeve antenna without antenna connector. The maximum Gain of the antenna is 1dBi.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

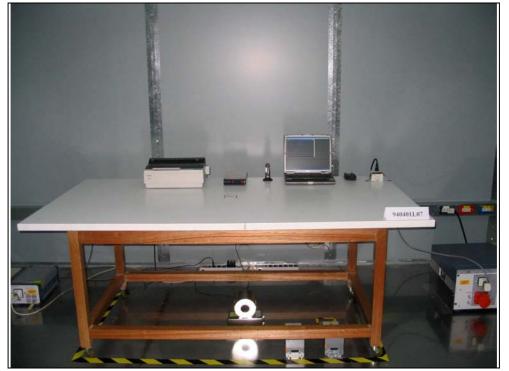
CONDUCTED EMISSION TEST (Mode 1)







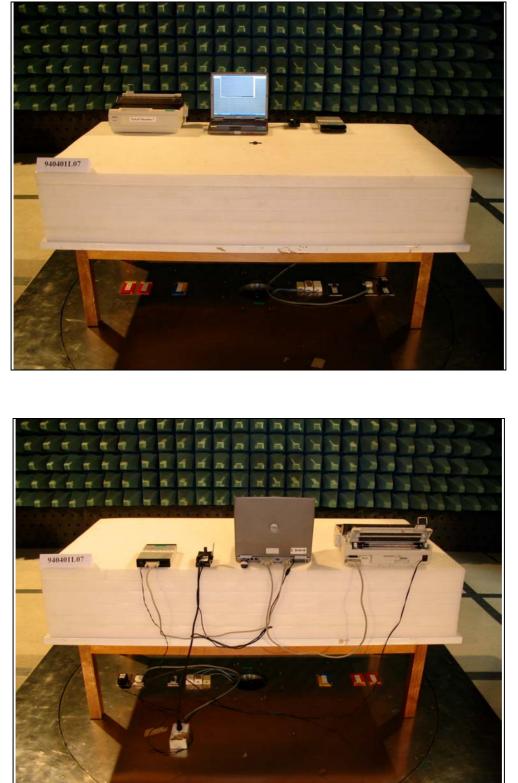
CONDUCTED EMISSION TEST (Mode 2)





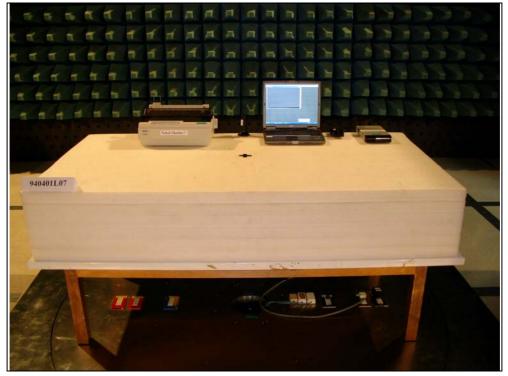


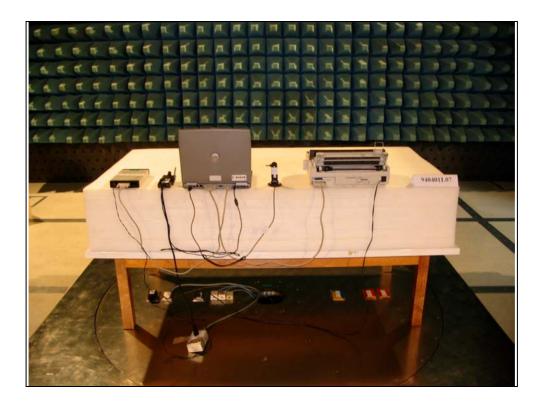
RADIATED EMISSION TEST (Mode 1)





RADIATED EMISSION TEST (Mode 2)







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: Linko RF Lab. Tel: 886-3-3183232 Fax: 886-3-3185050

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