

RADIO TEST REPORT

REPORT NO.: RE910410R01

MODEL NO.: WLL030M
WLL030

RECEIVED: April 10, 2002

TESTED: April 5 ~ April 18, 2002

APPLICANT: ASKEY COMPUTER CORP.

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

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 47 14th Ling, Chia Pau Tsuen, Linkou
Hsiang, Taipei, Taiwan, R.O.C.

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1. CERTIFICATION

PRODUCT : Mini PCI Combo Card
MODEL NO. : WLL030M / WLL030
BRAND NAME : Askey
APPLICANT : ASKEY COMPUTER CORP.
STANDARDS : **EN 300 328-2 (07-2000)**

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from April 5, 2002 to April 18, 2002. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Steven Lu, DATE: May 3, 2002
Steven Lu

CHECKED BY: Rennie Wang, DATE: MAY 3, 2002
Rennie Wang

APPROVED BY: Dr. Alan Lane, DATE: May 3, 2002
Dr. Alan Lane
Manager

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mini PCI Combo Card
MODEL NO.	WLL030M / WLL030
SOURCE VOLTAGE	$V_{nom} = 230$ $V_{min} = 207$ $V_{max} = 253$
POWER SUPPLY	3.3VDC from host equipment
RATED RF OUTPUT POWER	9.54dBm
MODULATION TYPE	DSSS
BIT RATE OF TRANSMITTER	1/2/5.5/11Mbps
OPERATING FREQUENCY	2.412GHz ~ 2.472GHz
NUMBER OF CHANNEL	13
CHANNEL SPACING	5 MHz
IF, L.O.	IF=374 MHz, L.O.=2038 ~ 2098 MHz
ANTENNA TYPE	Inverted F Antenna
TEMPERATURE RANGE	+0°C ~ +55°C
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. This product can be also programmed to operate in the frequency range allowed in France.
2. Model WLL030M and WLL030 are identical except for model number and the model WLL030 is designed without modem part.
3. This EUT was tested with the NB adapter which model number is SA80-3105, brand is ASTEC.
4. This EUT was tested with the Platform which model number is ACY25D01001, brand is COMPAL.
5. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 DESCRIPTION OF TEST MODES

The EUT (Mini PCI Combo Card) has been tested under operating and standby condition. Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed. Channel 1,7,10 and 13 are chosen for testing to fulfill the requirement of frequency spectrum usage in each country.

2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Mini PCI Combo Card, according to the specifications of the manufacturers, it must comply with the requirements of the following standards:

EN 300 328-2 (07-2000)

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

2.4 DESCRIPTION OF SUPPORT UNITS

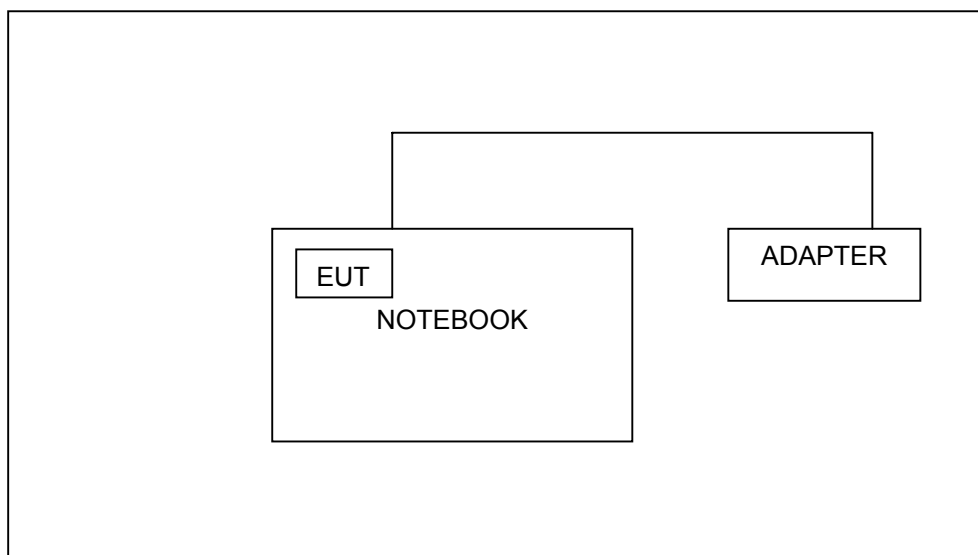
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	COMPAL	ACY25D01001	A9323D00W901B	FCC DoC APPROVED
2	ADAPTER	ASTEC	SA80-3105	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

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

2.5 CONFIGURATION OF SYSTEM UNDER TEST



2.6 LIST OF MEASUREMENTS

Clause	Test Parameter	Remarks
	TRANSMITTER PARAMETERS	
7.2.1	Effective Radiated Power	Applicable
7.2.1	Effective Conducted Power	Not Applicable
7.2.2	Peak Power Density (FHSS Equipment)	Not Applicable
7.2.2	Peak Power Density (DSSS Equipment – Radiated)	Applicable
7.2.2	Peak Power Density (DSSS Equipment – Conducted)	Not Applicable
7.2.3	Frequency Range of Equipment Using FHSS Modulation	Not Applicable
7.2.4	Frequency Range of Equipment Using Other Forms Of Modulation	Applicable See Note 2
7.2.5	Spurious Emissions (Operating – Radiated)	Applicable
7.2.5	Spurious Emissions (Standby – Radiated)	See Note 1
7.2.5	Spurious Emissions (Operating – Conducted)	Not Applicable
7.2.5	Spurious Emissions (Standby – Conducted)	Not Applicable
	RECEIVER PARAMETERS	
9.1	Spurious Emissions (Radiated)	Applicable
9.2	Spurious Emissions (Conducted)	Not Applicable

NOTE1: The emission of the transmitter on standby mode is equal to that of receiving mode.

NOTE2: Additionally, channel 10 was recorded, for showing effective use of frequency spectrum on France.

3. TEST PROCEDURES AND RESULTS

TRANSMITTER PARAMETERS

3.1 EFFECTIVE RADIATED POWER

3.1.1 LIMITS OF EFFECTIVE RADIATED POWER

Condition	Limit
Under all test conditions	Av: 20 dBm / -10 dBW Pk: 23 dBm / -7 dBW

3.1.2 TEST PROCEDURES

Please refer to item 7 of the standard.

3.1.3 TEST SETUP

The test setup has been constructed as the normal use condition. The EUT has been connected with PC and placed on the turn table. Controlling software has been activated to set the EUT on specific status.

3.1.4 TEST RESULTS

EUT	Mini PCI Combo Card	Model	WLL030M
Modulation bit rate	11Mbps	Duty cycle of EUT	100 %
Environmental Conditions	23 deg. C, 54 % RH	Tested By	Steven Lu

TEST CONDITION				TRANSMITTER PEAK POWER (dBm)							
				(CH1) 2412 MHz		(CH7) 2442 MHz		(CH10) 2457 MHz		(CH13) 2472 MHz	
				PK	AV	PK	AV	PK	AV	PK	AV
Tnom(°C)	20	Vnom(v)	230 V	9.35	9.04	9.54	8.96	9.34	8.91	9.43	8.81
Tmin(°C)	0	Vmin(v)	207 V	10.32	10.01	10.57	9.99	10.69	10.26	10.98	10.36
		Vmax(v)	253 V	10.32	10.01	10.57	9.99	10.69	10.26	10.98	10.36
Tmax(°C)	55	Vmin(v)	207 V	6.85	6.54	7.29	6.71	7.05	6.62	9.07	6.45
		Vmax(v)	253 V	6.85	6.54	7.29	6.71	7.05	6.62	9.07	6.45
Measurement uncertainty				+/-1.5dB							

3.2 PEAK POWER DENSITY (DSSS EQUIPMENT)

3.2.1 LIMIT OF PEAK POWER DENSITY

Condition	Limit
Under all test conditions	20dBm / 100 KHz (FHSS) 10dBm / 1 MHz (DSSS)

3.2.2 TEST PROCEDURES

Please refer to item 7 of the standard.

3.2.3 TEST SETUP

The EUT has been programmed to continuously transmit in certain channel during test.

3.2.4 TEST RESULTS

EUT	Mini PCI Combo Card	Model	WLL030M
Modulation bit rate	11Mbps		
Environmental Conditions	23 deg. C, 54 % RH	Tested By	Steven Lu

Channel Number	Channel Frequency (MHz)	RF Power (dBm/KHz)	Limit (dBm/kHz)	PASS/FAIL
1	2413.4170	0.41/1000	10/1000	PASS
7	2443.5210	0.45/1000	10/1000	PASS
10	2458.5544	0.48/1000	10/1000	PASS
13	2473.5111	0.16/1000	10/1000	PASS
MEASUREMENT UNCERTAINTY			+/-3dB	

NOTE

1. For equipment using FHSS modulation, the power density shall be limit to -10dBW(100mW) per 100kHz e.i.r.p.
2. For equipment using other types of modulation, the peak power shall be limit to -20dBW(10mW) per MHz e.i.r.p.

3.3 FREQUENCY RANGE (DSSS EQUIPMENT)

3.3.1 LIMIT OF FREQUENCY RANGE

Condition	Country	Limit
Under all test conditions	France	$F_L \geq 2446.5\text{MHz}$ $F_H \leq 2483.5\text{ MHz}$
	EU	$F_L \geq 2400.0\text{MHz}$ $F_H \leq 2483.5\text{ MHz}$

3.3.2 TEST PROCEDURES

Please refer to item 7 of the standard.

3.3.3 TEST SETUP

The EUT and probe antenna was placed into the temperature oven. The probe has to be connected with spectrum analyzer. The power source of the EUT has to be connected with the power supply for voltage change. The frequency has to be recorded for the right and left end above threshold of highest and lowest channel respectively.

3.3.4 TEST RESULTS (for France)

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	10 ~ 13		
Environmental Conditions:	23 deg. C, 54 % RH	Tested By	Steven Lu

TEST CONDITIONS			FREQUENCY (MHz)	
			Lowest	Highest
Tnom +20°C	Vnom(v)	230	2447.82	2481.26
Tmin +0°C	Vmin(v)	207	2447.80	2481.44
	Vmax(v)	253	2447.80	2481.44
Tmax +55°C	Vmin(v)	207	2448.16	2480.96
	Vmax(v)	253	2448.16	2480.96
Measured frequencies (lowest and highest)			$F_L = 2447.80$	$F_H = 2481.44$
Measurement uncertainty			+/- 200 kHz	

NOTE

- 1.For France market, only channel 10 ~ 13 is allowed. So, only lowest edge of channel 10 and highest edge of channel 13 under extreme condition are recorded in the above table.
- 2.The E.U.T is a stand alone radio device (see the clause 6.2.2). The host equipment is powered by the AC adapter. So, the AC power is used as the extreme voltage source.

3.3.5 TEST RESULTS (for other EU countries)

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	1 ~ 13		
Environmental Conditions	23 deg. C, 54 % RH	Tested By	Steven Lu

TEST CONDITIONS			FREQUENCY (MHz)	
			Lowest	Highest
Tnom +20°C	Vnom(v)	230	2402.92	2481.26
Tmin +0°C	Vmin(v)	207	2402.82	2481.44
	Vmax(v)	253	2402.82	2481.44
Tmax +55°C	Vmin(v)	207	2403.14	2480.96
	Vmax(v)	253	2403.14	2480.96
Measured frequencies (lowest and highest)			$F_L = 2402.82$	$F_H = 2481.44$
Measurement uncertainty			+/- 200 kHz	

NOTE

- 1.For EU market, only channel 1 ~ 13 is allowed. So, only lowest edge of channel 1 and highest edge of channel 13 under extreme condition are recorded in the above table.
- 2.The E.U.T is a stand alone radio device (see the clause 6.2.2). The host equipment is powered by the AC Adapter. So, the AC power is used as the extreme voltage source. (see clause 6.3.2.1)

3.4 TRANSMITTER SPURIOUS EMISSIONS (RADIATED)

3.4.1 LIMITS OF TRANSMITTER SPURIOUS EMISSIONS

Transmitter limits for narrowband spurious emissions

Frequency Range	Operating Limit	Standby Limit
30MHz ~ 1GHz	-36dBm	-57dBm
Above 1GHz ~ 12.75GHz	-30dBm	-47dBm
1.8~1.9GHz 5.15~5.3GHz	-47dBm	-47dBm

3.4.2 TEST PROCEDURES

Please refer to item 7 of the standard.

3.4.3 TEST SETUP

For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).

3.4.4 TEST RESULTS

EUT	Mini PCI Combo Card	Model	WLL030M
Frequency Range	30MHz ~ 1GHz		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
193.41	V	-57.8	-36.0	-21.8
193.41	H	-61.7	-36.0	-25.7
243.73	H	-59.2	-36.0	-23.2
257.80	H	-58.6	-36.0	-22.6
272.40	V	-62.8	-36.0	-26.8
272.40	H	-56.7	-36.0	-20.7
276.73	V	-60.1	-36.0	-24.1
321.01	V	-52.8	-36.0	-16.8
321.04	H	-55.2	-36.0	-19.2
328.06	H	-60.2	-36.0	-24.2
450.10	V	-63.4	-36.0	-27.4
457.11	H	-60.0	-36.0	-24.0
483.77	V	-61.5	-36.0	-25.5
572.14	V	-61.2	-36.0	-25.2
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	1		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2037.22	V	-55.0	-30.0	-25.0
2037.72	H	-53.5	-30.0	-23.5
4075.44	V	-51.6	-30.0	-21.6
4075.45	H	-61.1	-30.0	-31.1
4820.98	H	-60.6	-30.0	-30.6
4824.99	V	-57.1	-30.0	-27.1
6113.18	V	-57.2	-30.0	-27.2
6113.21	H	-58.8	-30.0	-28.8
8151.26	V	-55.8	-30.0	-25.8
9646.74	H	-54.4	-30.0	-24.4
9647.86	V	-53.6	-30.0	-23.6
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	7		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2067.72	V	-52.5	-30.0	-22.5
2067.72	H	-55.8	-30.0	-25.8
4135.44	V	-52.7	-30.0	-22.7
4135.45	H	-60.8	-30.0	-30.8
4883.95	H	-59.9	-30.0	-29.9
4885.07	V	-57.7	-30.0	-27.7
6203.16	H	-58.4	-30.0	-28.4
6203.17	V	-56.6	-30.0	-26.6
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	10		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2082.72	V	-52.3	-30.0	-22.3
2082.72	H	-54.0	-30.0	-24.0
4165.44	V	-56.0	-30.0	-26.0
4165.45	H	-60.0	-30.0	-30.0
4913.35	V	-53.6	-30.0	-23.6
4916.88	H	-59.8	-30.0	-29.8
6248.16	H	-58.1	-30.0	-28.1
6248.18	V	-54.3	-30.0	-24.3
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	13		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2097.72	V	-52.1	-30.0	-22.1
2097.72	H	-53.2	-30.0	-23.2
4195.45	V	-54.6	-30.0	-24.6
4195.47	H	-60.1	-30.0	-30.1
4943.79	V	-54.8	-30.0	-24.8
4944.27	H	-60.0	-30.0	-30.0
6293.17	H	-57.1	-30.0	-27.1
6293.18	V	-54.1	-30.0	-24.1
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

RECEIVER PARAMETERS

3.5 RECEIVER SPURIOUS RADIATION (RADIATED)

3.5.1 LIMIT OF RECEIVER SPURIOUS RADIATION

Narrowband spurious emission limits for receivers

Frequency Range	Limit
30MHz ~ 1GHz	-57dBm
Above 1GHz ~ 12.75GHz	-47dBm

3.5.2 TEST PROCEDURES

Please refer to item 7 of the standard.

3.5.3 TEST SETUP

For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).

3.5.4 TEST RESULTS

EUT	Mini PCI Combo Card	Model	WLL030M
Frequency Range	30MHz ~ 1GHz		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
33.25	V	-63.2	-57.0	-6.2
49.48	V	-60.9	-57.0	-3.9
158.24	H	-60.3	-57.0	-3.3
177.17	V	-63.2	-57.0	-6.2
177.17	H	-64.9	-57.0	-7.9
193.41	V	-60.3	-57.0	-3.3
193.41	H	-61.4	-57.0	-4.4
198.82	H	-64.7	-57.0	-7.7
483.77	V	-60.9	-57.0	-3.9
527.25	H	-60.7	-57.0	-3.7
572.14	V	-60.0	-57.0	-3.0
572.14	H	-59.2	-57.0	-2.2
615.63	V	-63.4	-57.0	-6.4
615.63	H	-63.6	-57.0	-6.6
643.69	V	-63.5	-57.0	-6.5
772.75	H	-63.6	-57.0	-6.6
837.27	H	-63.2	-57.0	-6.2
903.21	H	-60.9	-57.0	-3.9
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	1		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2037.73	V	-52.2	-47.0	-5.2
2037.73	H	-53.5	-47.0	-6.5
4075.47	H	-62.6	-47.0	-15.6
4075.48	V	-60.1	-47.0	-13.1
6113.15	V	-59.3	-47.0	-12.3
6113.43	H	-58.2	-47.0	-11.2
8150.87	H	-52.6	-47.0	-5.6
8150.92	V	-49.1	-47.0	-2.1
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	7		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2067.72	V	-52.7	-47.0	-5.7
2067.72	H	-56.5	-47.0	-9.5
4135.45	H	-60.9	-47.0	-13.9
4135.46	V	-56.0	-47.0	-9.0
6203.17	V	-55.8	-47.0	-8.8
6203.17	H	-56.8	-47.0	-9.8
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

EUT	Mini PCI Combo Card	Model	WLL030M
Channel	10		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2082.73	V	-51.8	-47.0	-4.8
2082.73	H	-54.9	-47.0	-7.9
4165.45	V	-55.7	-47.0	-8.7
4165.45	H	-61.3	-47.0	-14.3
6248.18	V	-54.6	-47.0	-7.6
6248.18	H	-57.7	-47.0	-10.7
8330.91	V	-54.0	-47.0	-7.0
8331.37	H	-59.7	-47.0	-12.7
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

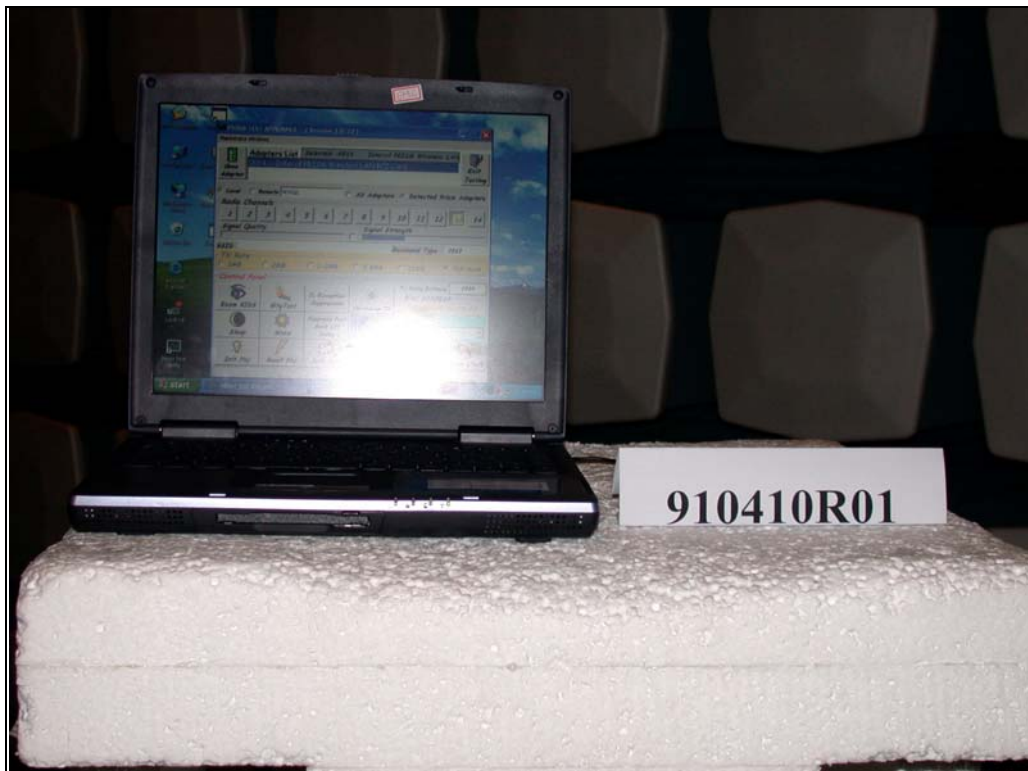
EUT	Mini PCI Combo Card	Model	WLL030M
Channel	13		
Environmental Conditions	25 deg. C , 70 % RH	Tested By	Steven Lu

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin
2097.72	H	-55.3	-47.0	-8.3
2097.73	V	-51.1	-47.0	-4.1
4195.46	V	-56.1	-47.0	-9.1
4195.46	H	-61.6	-47.0	-14.6
6292.77	H	-58.4	-47.0	-11.4
6293.18	V	-58.2	-47.0	-11.2
8390.93	V	-52.4	-47.0	-5.4
8391.08	H	-54.2	-47.0	-7.2
Measurement uncertainty		+/-6dB		

NOTE: The emission behavior belongs to narrowband spurious emission.

4. PHOTOGRAPHS OF THE TEST CONFIGURATION

Tx and Rx SPURIOUS EMISSION TEST



5. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

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:

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