



Test Report

Product Name : Wireless LAN PCMCIA Card

Model No.: WLC030/ SB2200

FCC ID.: H8NWLC030

Applicant : ASKEY COMPUTER CORP.

Address : 2/FL, No.2, Lane 497 Chung cheng Road, Hsin Tien,
Taipei, Taiwan, R.O.C.

Date of Receipt : Feb. 08, 2002

Date of Test : Feb. 18, 2002

Report No. : 022H040FI

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Test Date : Feb. 18, 2002

Report No. : 022H040FI



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200347-0

Product Name : Wireless LAN PCMCIA Card

Applicant : ASKEY COMPUTER CORP.

Address : 2/FL, No.2, Lane 497 Chung cheng Road, Hsin Tien,
Taipei, Taiwan, R.O.C.

Manufacturer : ASKEY COMPUTER CORP.

Model No. : WLC030/ SB2200

FCC ID. : H8NWLC030

Rated Voltage : DC 5V (Power by PC)

Trade Name : ASKEY

Measurement Standard : FCC Part 15 Subpart C Paragraph 15.247

Measurement Procedure : ANSI C63.4: 1992

Test Result : Complied



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1. GENERAL INFORMATION

1.1. EUT Description

Product Name : Wireless LAN PCMCIA Card
 Trade Name : ASKEY
 FCC ID. : H8NWLC030
 Model No. : WLC030/ SB2200
 Frequency Range : 2412MHz to 2462MHz
 Channel Number : 11
 Type of Modulation : Direct Sequence Spread Spectrum
 Antenna type : Soldered in PCB
 Operator Selection of Operating Frequency : By software

Frequency of Each Channel:

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

Note:

1. This device is a 2.4GHz Wireless LAN PCMCIA Card included a 2.4GHz receiving function, a 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart B for 2.4GHz Receiver
3. Regard to the different construction of the EUT. The model number were shown in the table following:

Model Number	Company
WLC030	ASKEY
SB2200	SmartBrdges

The Circuit of each model is identical.

4. Regards to the frequent band operation; three channels were selected to perform the test, then shown on this report.
5. This device is a composite device in accordance with Part 15 regulations. The function for the 2.4GHz transmitting was measured and made a test report that the report number is 022H040FI, certified under FCC ID: H8NWLC030

1.2. Operational Description

EUT is a Wireless LAN PCMCIA Card with 11 channels. This device provided four kind of transmitting speed 1,2,5.5 and 11Mbps. The device of RF carrier is DQPSK, DB PSK and CCK.

The device adapts direct sequence spread spectrum modulation. The SMD antenna was scolded on PCB provides diversity function to improve the receiving function. The PCMCIA interface provides the connection to pc for data can be transmitted by the radio signal connect to the Internet or Local network.

This Wireless LAN Card is an IEEE 802.11b Wireless LAN PCMCIA Card adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transmission, the Wireless LAN Card transfers data at speeds up to 64/128-bit Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any 802.11b network.

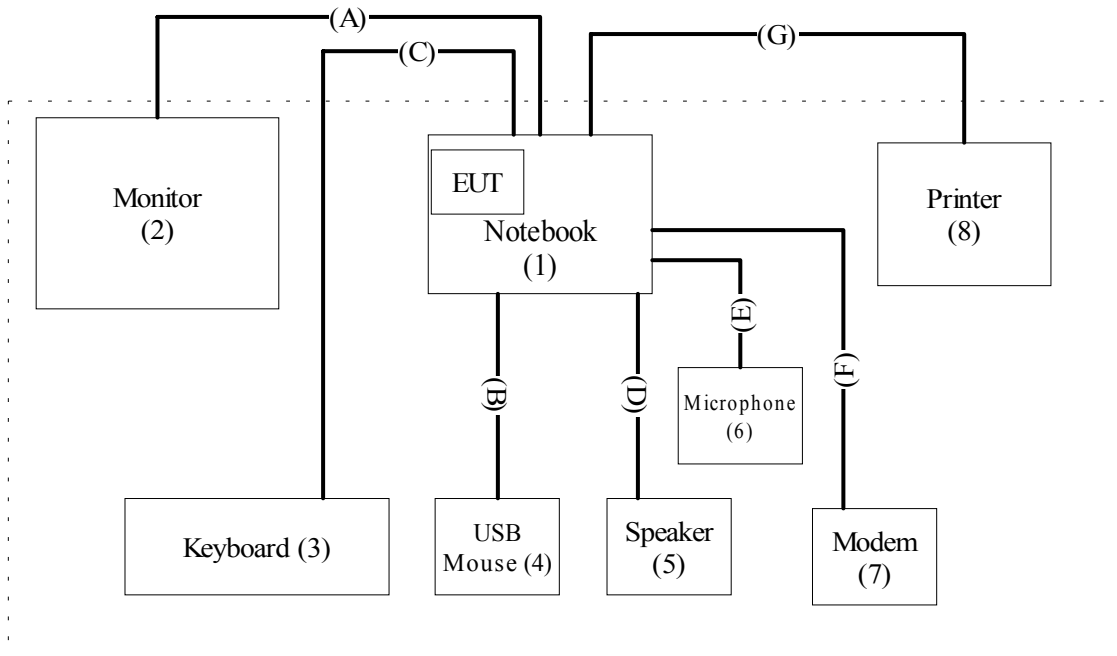
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
(1)	Notebook	Dell	PP01L	N/A	N/A
(2)	Monitor	ADi	CM703	038054T10204018 A	Shielded, 1.8m
(3)	Keyboard	HP	SK-2502	M971237059	N/A
(4)	USB Mouse	Logitech	M-UE55	LTC93813271	N/A
(5)	Speaker	IBM	Speaker (NW)	024213	N/A
(6)	Microphone	DYNAMIC	DM-35	N/A	N/A
(7)	Modem	ACEEX	2814	960018054	N/A
(8)	Printer	HP	C2642A	MY75J1D1D0	Non-Shielded, 0.7m

	Signal Cable Type	Signal cable Description
A.	VGA Cable	Shielded, 1.8m, two ferrite core bonded
B.	USB Mouse	Shielded, 1.0m
C.	Keyboard Cable	Shielded, 1.8m
D.	Speaker Cable	Non-shielded, 1.8m
E.	Microphone Cable	Non-shielded, 2.8m
F.	Modem Cable	Shielded, 1.5m
G.	Printer Cable	Shielded, 1.2m

1.4. Configuration of tested System



1.5. EUT Exercise Software

- 1.4.1 Setup the EUT and simulators as shown on 1.3.
- 1.4.2 Turn on the power of all equipment.
- 1.4.3 Notebook PC reads data from disk.
- 1.4.4 Data will be transmitting through EUT.
- 1.4.5 The transmitted status will be shown on the monitor.
- 1.4.6 Repeat the above procedure 1.4.4 to 1.4.5

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: November 3, 1998 File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2
 August 30, 2001 Accreditation on NVLAP
 NVLAP Lab Code: 200347-0



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2. Conducted Emission

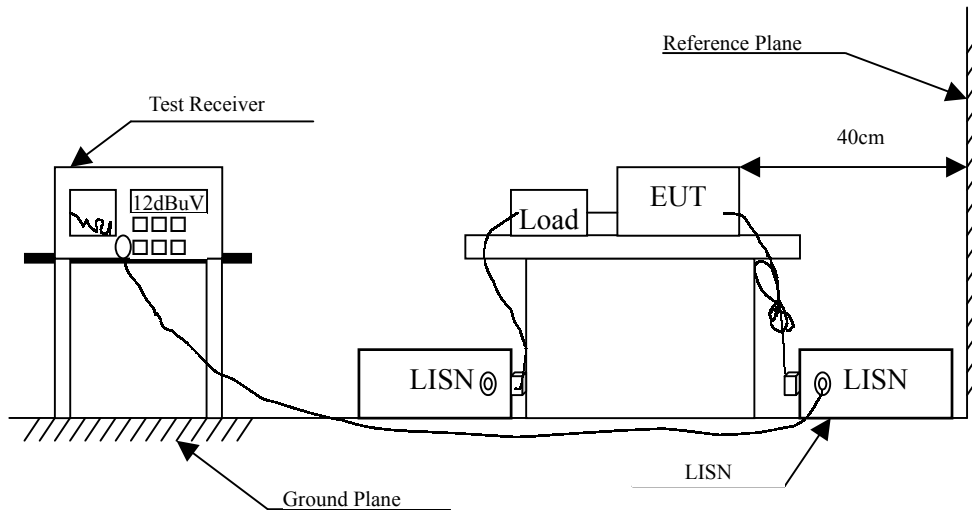
2.1. Test Equipment List

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2001	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2001	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2001	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	No.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency MHz	Limits	
	uV	dBuV
0.45 - 30	250	48.0

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:1992 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.45MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Result of Conducted Emission

Product : Wireless LAN PCMCIA Card
 Test Item : Conducted Emission Test
 Test Mode : Normal Operation

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Emission Level dBuV	Limits dBuV
Line 1					
Quasi-Peak:					
*0.467	0.06	0.21	31.41	31.68	48.00
0.524	0.07	0.22	30.19	30.47	48.00
0.641	0.08	0.24	25.12	25.43	48.00
0.876	0.09	0.27	24.52	24.88	48.00
3.807	0.18	0.41	30.03	30.62	48.00
27.463	0.39	0.59	25.13	26.11	48.00
Line 2					
Quasi-Peak:					
0.523	0.07	0.22	26.29	26.57	48.00
1.407	0.12	0.31	28.63	29.06	48.00
1.760	0.14	0.33	29.54	30.01	48.00
2.054	0.15	0.35	30.26	30.75	48.00
*3.934	0.18	0.41	30.67	31.26	48.00
4.814	0.20	0.43	29.42	30.04	48.00

Remarks :

1. All Readings below 1GHz are Quasi-Peak value.
2. “ * ” means that this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable loss

3. Peak Power Output

3.1. Test Equipment

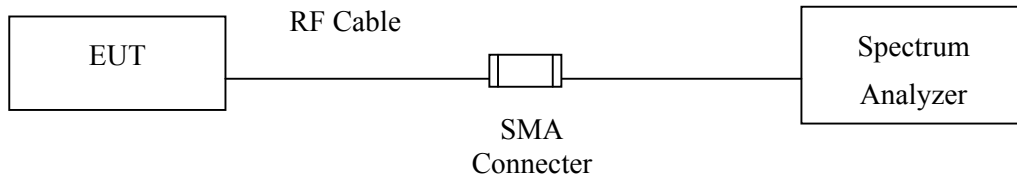
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum	Advantest	R3272 / 72421194	May, 2001

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup

Conduction Power Measurement



3.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

3.4. Minimum Standard

The maximum peak power shall be less 1 Watt.

3.5. Test Result of Peak Power Output

Product : Wireless LAN PCMCIA Card
 Test Item : Peak Power Output Data
 Test Site : No.1 OATS
 Test Mode : Normal Operation

Data Speed: 1Mbps

Channel No.	Frequency(MHz)	Measurement	Required Limit	Result
1	2412.00	16.28 dBm	1 Watt= 30 dBm	Pass
6	2437.00	15.90 dBm	1 Watt= 30 dBm	Pass
11	2462.00	15.52 dBm	1 Watt= 30 dBm	Pass

Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	16.63 dBm	1 Watt= 30 dBm	Pass
6	2437.00	15.56 dBm	1 Watt= 30 dBm	Pass
11	2462.00	14.96 dBm	1 Watt= 30 dBm	Pass

4. RF Exposure Evaluation

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

4.1. Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.2. EUT Operation condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.3. Test Result of RF Exposure Evaluation

Product : Wireless LAN PCMCIA Card
 Test Item : RF Exposure Evaluation Data
 Test Site : No.1 OATS
 Test Mode : Normal Operation

4.3.1 Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0dBi linear scale.

4.3.2 Output Power Into Antenna & RF Exposure Evaluation Distance

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Minimum Allowable Distance ® From Skin(cm)
1 (1Mbps)	2412.00	16.28	2.062506
1 (11Mbps)	2412.00	16.63	2.147312
6 (1Mbps)	2437.00	15.90	1.974219
6 (11Mbps)	2437.00	15.56	1.898433
11 (1Mbps)	2462.00	15.52	1.889710
11 (11Mbps)	2462.00	14.96	1.771721

The distance r (4th column) calculated from the Friis transmission formula is far shorter than 2.5 cm separation requirement. So, RF exposure limit warning or SAR test are not required.

5. Radiated Emission

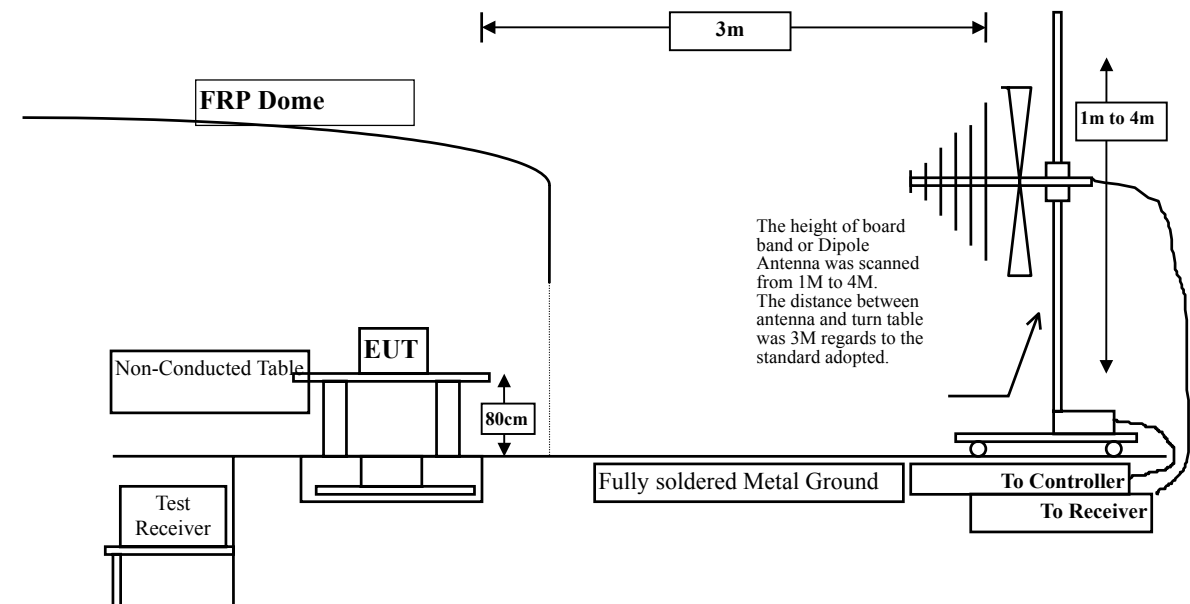
5.1. Test Equipment

The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	X Test Receiver	R & S	ESCS 30 / 825442/14	May, 2001
	X Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2001
	X Pre-Amplifier	HP	8447D/3307A01812	May, 2001
	X Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2001
	X Horn Antenna	EM	EM6917 / 103325	May, 2001
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2001
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2001
	Pre-Amplifier	HP	8447D/3307A01814	May, 2001
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2001
	Horn Antenna	EM	EM6917 / 103325	May, 2001

- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup



Spurious Emissions
(Band Edge Antenna Radiated)

5.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

5.4. Limits

► General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

5.5. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:1992 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

5.6. Test Result of Radiated Emission

Product : Wireless LAN PCMCIA Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (1Mbps)

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading Level dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Peak Detector: (Horizontal)							
4824.100	6.28	33.50	34.68	34.84	39.94	34.06	74.00
7236.300	8.32	36.24	34.97	34.40	43.99	30.01	74.00
9648.000	10.17	37.43	35.10	35.38	<47.88	26.12	74.00
12060.20	11.89	39.12	34.66	35.95	<52.30	21.70	74.00
14472.00	13.52	40.82	33.85	31.20	<51.69	22.31	74.00
16883.90	15.08	42.56	33.97	27.78	<51.45	22.55	74.00
19296.40	15.76	47.30	33.80	23.32	<52.58	21.42	74.00
21708.50	15.76	47.30	33.80	21.63	<50.89	23.11	74.00
24120.30	15.76	47.30	33.80	22.11	<51.37	22.63	74.00
Peak Detector: (Vertical)							
4823.600	6.28	33.50	34.68	34.73	39.83	34.17	74.00
7235.900	8.32	36.24	34.97	34.30	43.89	30.11	74.00
9648.000	10.17	37.43	35.10	35.49	<47.99	26.01	74.00
12060.40	11.89	39.12	34.66	36.53	<52.88	21.12	74.00
14471.50	13.52	40.82	33.85	31.20	<51.69	22.31	74.00
16884.40	15.08	42.56	33.97	28.97	<52.64	21.36	74.00
19296.69	15.76	47.30	33.80	22.62	<51.88	22.12	74.00
21708.00	15.76	47.30	33.80	21.59	<50.85	23.15	74.00
24119.90	15.76	47.30	33.80	23.39	<52.65	21.35	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PCMCIA Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (1Mbps)

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Peak Detector: (Horizontal)							
4874.000	6.33	33.57	34.69	35.06	40.28	33.72	74.00
7311.200	8.38	36.31	34.99	34.77	44.47	29.53	74.00
9748.200	10.24	37.45	35.10	34.96	<47.55	26.45	74.00
12185.30	12.00	39.18	34.48	34.43	<51.13	22.87	74.00
14621.90	13.61	40.53	34.05	32.50	<52.59	21.41	74.00
17058.69	15.17	42.86	33.89	28.07	<52.22	21.78	74.00
19495.69	15.76	47.30	33.80	22.18	<51.44	22.56	74.00
21933.19	15.76	47.30	33.80	22.42	<51.68	22.32	74.00
24370.00	15.76	47.30	33.80	23.02	<52.28	21.72	74.00
Peak Detector: (Vertical)							
4874.000	6.33	33.57	34.69	34.76	39.98	34.02	74.00
7311.400	8.38	36.31	34.99	34.83	44.53	29.47	74.00
9747.900	10.24	37.45	35.10	35.23	<47.82	26.18	74.00
12184.90	12.00	39.18	34.48	34.11	<50.81	23.19	74.00
14621.90	13.61	40.53	34.05	32.47	<52.56	21.44	74.00
17059.10	15.17	42.86	33.89	27.63	<51.78	22.22	74.00
19496.19	15.76	47.30	33.80	23.29	<52.55	21.45	74.00
21932.80	15.76	47.30	33.80	21.63	<50.89	23.11	74.00
24369.80	15.76	47.30	33.80	22.20	<51.46	22.54	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PCMCIA Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (1Mbps)

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Peak Detector: (Horizontal)							
4924.300	6.36	33.61	34.69	34.20	39.47	34.53	74.00
7386.500	8.44	36.39	35.02	34.56	44.37	29.63	74.00
9847.900	10.33	37.47	35.10	35.18	<47.88	26.12	74.00
12310.20	12.08	39.23	34.35	34.11	<51.07	22.93	74.00
14772.40	13.73	40.13	34.31	32.54	<52.10	21.90	74.00
17233.90	15.31	43.92	33.87	25.52	<50.89	23.11	74.00
19695.80	15.76	47.30	33.80	23.10	<52.36	21.64	74.00
22157.90	15.76	47.30	33.80	21.63	<50.89	23.11	74.00
24619.80	15.76	47.30	33.80	22.19	<51.45	22.55	74.00
Peak Detector: (Vertical)							
4924.200	6.36	33.61	34.69	34.08	39.35	34.65	74.00
7386.200	8.44	36.39	35.02	34.98	44.79	29.21	74.00
9848.100	10.33	37.47	35.10	35.28	<47.98	26.02	74.00
12310.20	12.08	39.23	34.35	34.89	<51.85	22.15	74.00
14771.80	13.73	40.13	34.31	31.70	<51.26	22.74	74.00
17234.19	15.31	43.92	33.87	27.41	<52.78	21.22	74.00
19695.90	15.76	47.30	33.80	21.77	<51.03	22.97	74.00
22158.00	15.76	47.30	33.80	22.10	<51.36	22.64	74.00
24619.60	15.76	47.30	33.80	22.42	<51.68	22.32	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PCMCIA Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (11Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Peak Detector: (Horizontal)

4825.000	6.28	33.50	34.68	36.41	41.51	32.49	74.00
7235.800	8.32	36.24	34.97	34.94	44.53	29.47	74.00
9648.600	10.17	37.43	35.10	36.14	<48.64	25.36	74.00
12060.70	11.89	39.12	34.66	36.29	<52.64	21.36	74.00
14472.60	13.52	40.82	33.85	30.75	<51.24	22.76	74.00
16883.90	15.08	42.56	33.97	28.43	<52.10	21.90	74.00
19294.80	15.76	47.30	33.80	21.94	<51.20	22.80	74.00
21707.10	15.76	47.30	33.80	21.86	<51.12	22.88	74.00
24120.60	15.76	47.30	33.80	22.95	<52.21	21.79	74.00

Peak Detector: (Vertical)

4823.800	6.28	33.50	34.68	35.47	40.57	33.43	74.00
7238.500	8.32	36.24	34.97	35.47	45.06	28.94	74.00
9649.500	10.17	37.43	35.10	36.08	<48.58	25.42	74.00
12061.40	11.89	39.12	34.66	35.68	<52.03	21.97	74.00
14472.30	13.52	40.82	33.85	29.86	<50.35	23.65	74.00
16884.60	15.08	42.56	33.97	27.73	<51.40	22.60	74.00
19295.30	15.76	47.30	33.80	22.94	<52.20	21.80	74.00
21708.10	15.76	47.30	33.80	23.34	<52.60	21.40	74.00
24120.60	15.76	47.30	33.80	21.06	<50.32	23.68	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PCMCIA Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (11Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Peak Detector: (Horizontal)

4873.600	6.33	33.57	34.69	35.33	40.55	33.45	74.00
7311.300	8.38	36.31	34.99	35.95	45.65	28.35	74.00
9747.900	10.24	37.45	35.10	36.17	<48.76	25.24	74.00
12185.40	12.00	39.18	34.48	34.26	<50.96	23.04	74.00
14621.70	13.61	40.53	34.05	31.22	<51.31	22.69	74.00
17059.00	15.17	42.86	33.89	27.96	<52.11	21.89	74.00
19496.19	15.76	47.30	33.80	22.86	<52.12	21.88	74.00
21933.90	15.76	47.30	33.80	21.97	<51.23	22.77	74.00
24370.60	15.76	47.30	33.80	22.96	<52.22	21.78	74.00

Peak Detector: (Vertical)

4874.700	6.33	33.57	34.69	36.27	41.49	32.51	74.00
7311.100	8.38	36.31	34.99	35.52	45.22	28.78	74.00
9749.200	10.24	37.45	35.10	36.25	<48.84	25.16	74.00
12184.80	12.00	39.18	34.48	35.91	<52.61	21.39	74.00
14622.00	13.61	40.53	34.05	29.08	<49.17	24.83	74.00
17059.30	15.17	42.86	33.89	27.05	<51.20	22.80	74.00
19496.00	15.76	47.30	33.80	22.97	<52.23	21.77	74.00
21933.10	15.76	47.30	33.80	21.97	<51.23	22.77	74.00
24370.30	15.76	47.30	33.80	22.07	<51.33	22.67	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PCMCIA Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (11Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor	dB	Level	Level	dB	dBuV/m
	dB	dB/m		dBuV	dBuV/m		

Peak Detector: (Horizontal)

4923.900	6.36	33.61	34.69	36.62	41.89	32.11	74.00
7386.400	8.44	36.39	35.02	37.05	46.86	27.14	74.00
9848.600	10.33	37.47	35.10	37.16	<49.86	24.14	74.00
12310.00	12.08	39.23	34.35	35.04	<52.00	22.00	74.00
14772.90	13.73	40.13	34.31	30.80	<50.36	23.64	74.00
17233.40	15.31	43.92	33.87	26.28	<51.65	22.35	74.00
19696.40	15.76	47.30	33.80	22.19	<51.45	22.55	74.00
22156.90	15.76	47.30	33.80	23.20	<52.46	21.54	74.00
24619.60	15.76	47.30	33.80	22.72	<51.98	22.02	74.00

Peak Detector: (Vertical)

4924.300	6.36	33.61	34.69	34.67	39.94	34.06	74.00
7385.800	8.44	36.39	35.02	35.22	45.03	28.97	74.00
9848.000	10.33	37.47	35.10	36.07	<48.77	25.23	74.00
12309.90	12.08	39.23	34.35	34.03	<50.99	23.01	74.00
14771.90	13.73	40.13	34.31	31.68	<51.24	22.76	74.00
17233.80	15.31	43.92	33.87	25.31	<50.68	23.32	74.00
19695.90	15.76	47.30	33.80	22.95	<52.21	21.79	74.00
22157.80	15.76	47.30	33.80	22.09	<51.35	22.65	74.00
24619.80	15.76	47.30	33.80	21.63	<50.89	23.11	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PCMCIA Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (1Mbps)

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
199.750	1.71	15.24	26.91	38.80	28.84	14.66	43.50
298.690	2.12	18.50	26.95	40.80	34.48	11.52	46.00
337.490	2.28	18.83	26.89	37.00	31.22	14.78	46.00
397.630	2.53	19.60	26.80	35.60	30.94	15.06	46.00
454.860	2.76	20.18	26.71	34.00	30.23	15.77	46.00
*567.380	3.22	21.85	26.53	37.00	35.55	10.45	46.00
Vertical							
151.250	1.52	16.74	26.89	39.20	30.56	12.94	43.50
330.700	2.25	19.66	26.90	38.20	33.21	12.79	46.00
395.690	2.52	19.68	26.80	36.40	31.81	14.19	46.00
*453.890	2.76	20.18	26.71	37.60	33.82	12.18	46.00
510.150	2.99	20.72	26.62	35.00	32.09	13.91	46.00
568.350	3.23	21.77	26.53	33.80	32.27	13.73	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.

Product : Wireless LAN PCMCIA Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (1Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

250.190	1.92	17.97	26.93	38.40	31.36	14.64	46.00
*293.840	2.10	18.46	26.95	38.80	32.41	13.59	46.00
332.640	2.26	18.68	26.90	37.20	31.24	14.76	46.00
399.570	2.54	19.72	26.79	36.00	31.46	14.54	46.00
453.890	2.76	20.18	26.71	34.00	30.22	15.78	46.00
510.150	2.99	20.72	26.62	33.40	30.49	15.51	46.00

Vertical

262.800	1.97	18.59	26.94	34.40	28.03	17.97	46.00
330.700	2.25	19.66	26.90	38.20	33.21	12.79	46.00
396.660	2.52	19.60	26.80	35.80	31.13	14.87	46.00
*453.890	2.76	20.18	26.71	37.20	33.42	12.58	46.00
510.150	2.99	20.72	26.62	34.60	31.69	14.31	46.00
567.380	3.22	21.85	26.53	34.00	32.55	13.45	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.

Product : Wireless LAN PCMCIA Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (1Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

*194.900	1.69	14.64	26.91	42.00	31.42	12.08	43.50
293.840	2.10	18.46	26.95	38.40	32.01	13.99	46.00
400.540	2.54	19.84	26.79	34.80	30.39	15.61	46.00
456.800	2.77	20.20	26.70	36.80	33.07	12.93	46.00
584.840	3.30	21.92	26.50	34.40	33.11	12.89	46.00
744.890	3.95	23.28	26.25	32.20	33.18	12.82	46.00

Vertical

150.280	1.51	16.86	26.89	37.60	29.08	14.42	43.50
196.840	1.70	14.90	26.91	38.60	28.28	15.22	43.50
251.160	1.92	18.09	26.93	36.20	29.29	16.71	46.00
331.670	2.26	18.66	26.90	39.80	33.82	12.18	46.00
*452.920	2.75	20.15	26.71	38.20	34.39	11.61	46.00
588.720	3.31	21.75	26.50	33.40	31.97	14.03	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.

Product : Wireless LAN PCMCIA Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (11Mbps)

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP Reading Level dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal							
198.780	1.71	15.14	26.91	40.60	30.53	12.97	43.50
*251.160	1.92	18.09	26.93	44.80	37.89	8.11	46.00
299.660	2.12	18.53	26.95	37.20	30.90	15.10	46.00
398.600	2.53	19.62	26.79	37.40	32.76	13.24	46.00
510.150	2.99	20.72	26.62	33.80	30.89	15.11	46.00
568.350	3.23	21.77	26.53	36.00	34.47	11.53	46.00
Vertical							
254.070	1.94	18.51	26.93	34.20	27.72	18.28	46.00
333.610	2.26	18.68	26.90	38.00	32.05	13.95	46.00
*397.630	2.53	19.60	26.80	38.80	34.14	11.86	46.00
454.860	2.76	20.18	26.71	37.60	33.83	12.17	46.00
511.120	2.99	20.62	26.62	34.40	31.40	14.60	46.00
567.380	3.22	21.85	26.53	34.80	33.35	12.65	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.

Product : Wireless LAN PCMCIA Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (11Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Emission	Margin	Limit
MHz	Loss	Factor		Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

*195.870	1.70	14.74	26.91	45.00	34.53	8.97	43.50
250.190	1.92	17.97	26.93	37.00	29.96	16.04	46.00
293.840	2.10	18.46	26.95	37.20	30.81	15.19	46.00
455.830	2.76	20.20	26.70	36.20	32.46	13.54	46.00
582.900	3.29	21.89	26.50	35.40	34.08	11.92	46.00
738.100	3.92	23.16	26.26	32.60	33.42	12.58	46.00

Vertical

149.310	1.51	16.96	26.89	40.20	31.78	11.72	43.50
194.900	1.69	14.64	26.91	39.20	28.62	14.88	43.50
330.700	2.25	19.66	26.90	37.20	32.21	13.79	46.00
*455.830	2.76	20.20	26.70	40.80	37.06	8.94	46.00
586.780	3.30	21.83	26.50	33.60	32.24	13.76	46.00
744.890	3.95	23.28	26.25	30.60	31.58	14.42	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.

Product : Wireless LAN PCMCIA Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (11Mbps)

Freq.	Cable Loss	Probe Factor	PreAMP Reading	Emission Margin	Limit		
MHz	dB	dB/m	dB	Level	Level	dB	dBuV/m
				dBuV	dBuV/m		
Horizontal							
199.750	1.71	15.24	26.91	40.60	30.64	12.86	43.50
251.160	1.92	18.09	26.93	40.00	33.09	12.91	46.00
293.840	2.10	18.46	26.95	37.60	31.21	14.79	46.00
335.550	2.27	18.70	26.89	36.40	30.48	15.52	46.00
454.860	2.76	20.18	26.71	34.20	30.43	15.57	46.00
*567.380	3.22	21.85	26.53	37.20	35.75	10.25	46.00
Vertical							
256.980	1.95	18.85	26.93	34.80	28.67	17.33	46.00
330.700	2.25	19.66	26.90	37.40	32.41	13.59	46.00
398.600	2.53	19.62	26.79	38.40	33.76	12.24	46.00
*454.860	2.76	20.18	26.71	38.20	34.43	11.57	46.00
513.060	3.00	20.64	26.61	34.20	31.22	14.78	46.00
567.380	3.22	21.85	26.53	34.40	32.95	13.05	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss- Pre Amp.

6. Band Edge

6.1. Test Equipment

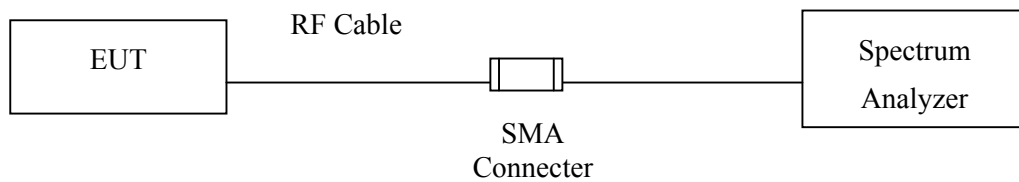
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2001
X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2001
X	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2001
X	Pre-Amplifier	HP	8447D/3307A01812	May, 2001
X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2001
X	Horn Antenna	EM	EM6917 / 103325	May, 2001

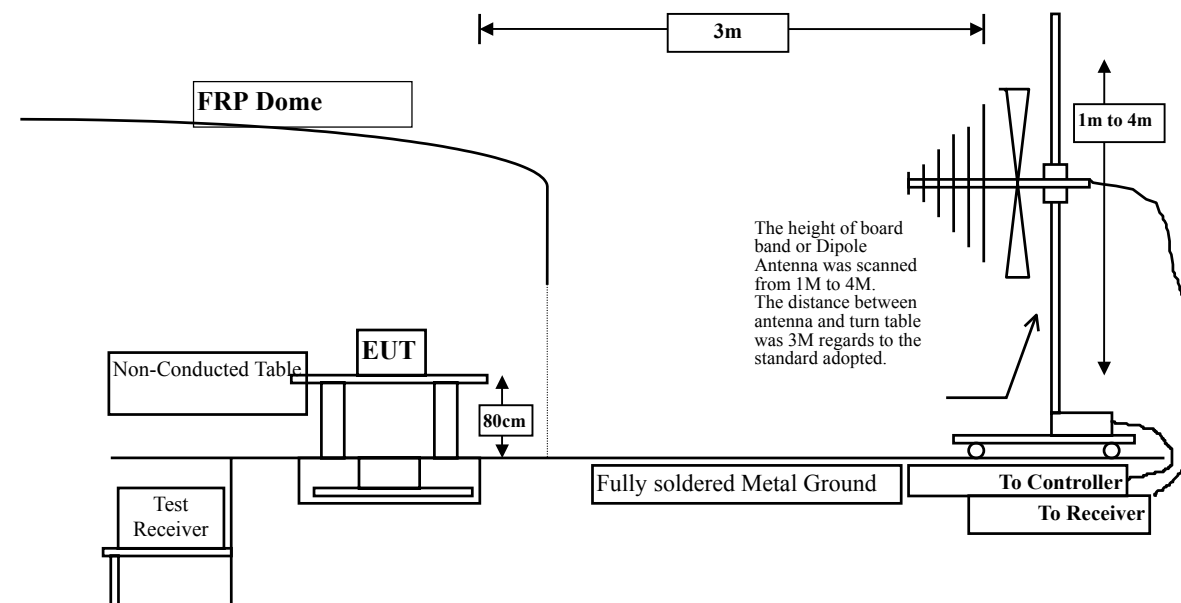
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

6.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



6.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

6.4. Standard Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.5. Test Result of Band Edge

Product : Wireless LAN PCMCIA Card
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (1Mbps)

RF Conducted Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass
1 (Vertical)	<2400	>20	Pass

Figure Channel 1: (Horizontal)

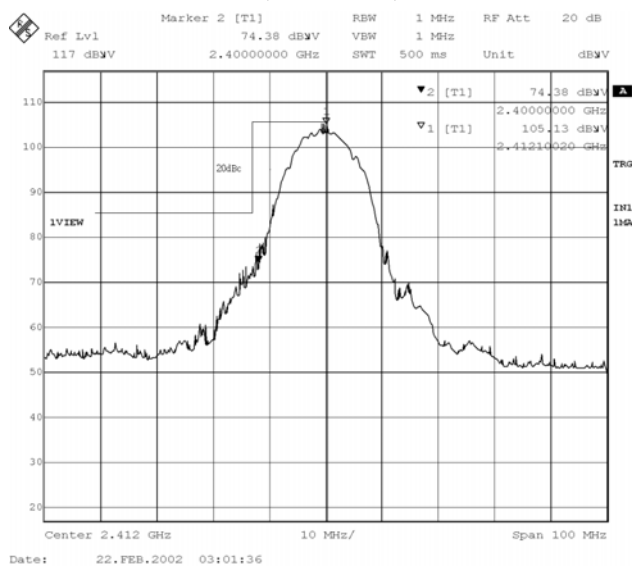
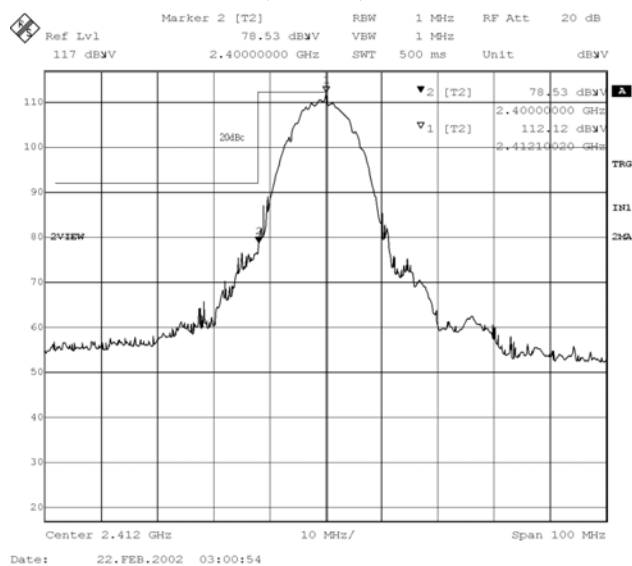


Figure Channel 1: (Vertical)



Product : Wireless LAN PCMCIA Card
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (11Mbps)

RF Conducted Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass
1 (Vertical)	<2400	>20	Pass

Figure Channel 1: (Horizontal)

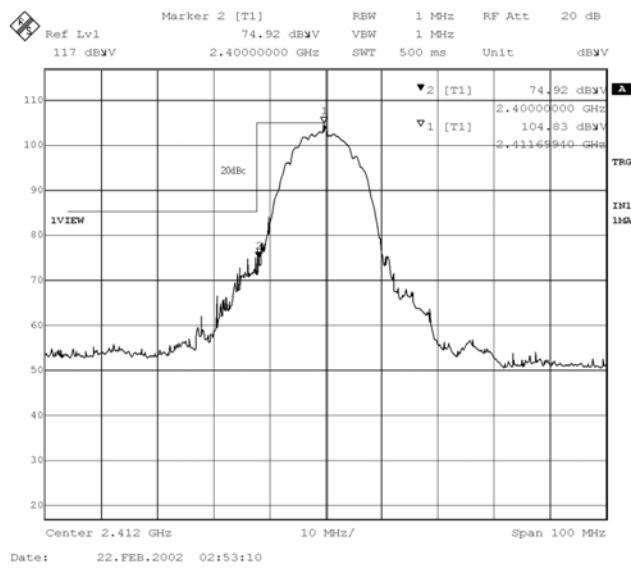
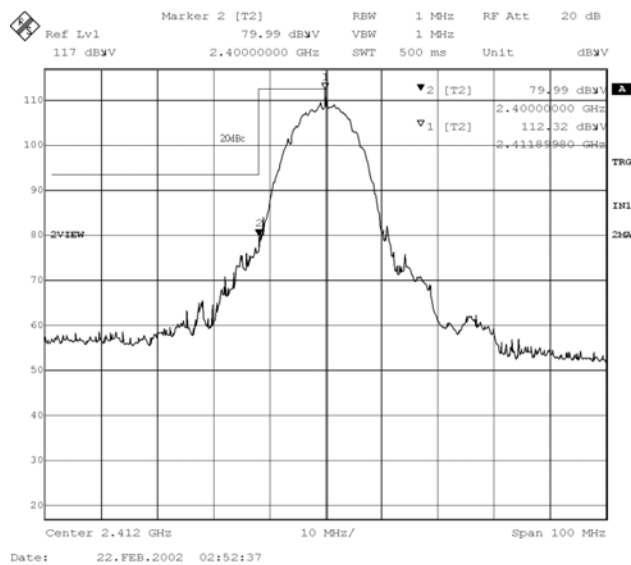


Figure Channel 1: (Vertical)



Product : Wireless LAN PCMCIA Card
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (1Mbps)

RF Radiated Measurement:

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
11(Horizontal)	2487.15	52.70	51.21	54	Pass
11 (Vertical)	2490.55	55.88	52.39	54	Pass

Figure Channel 11:

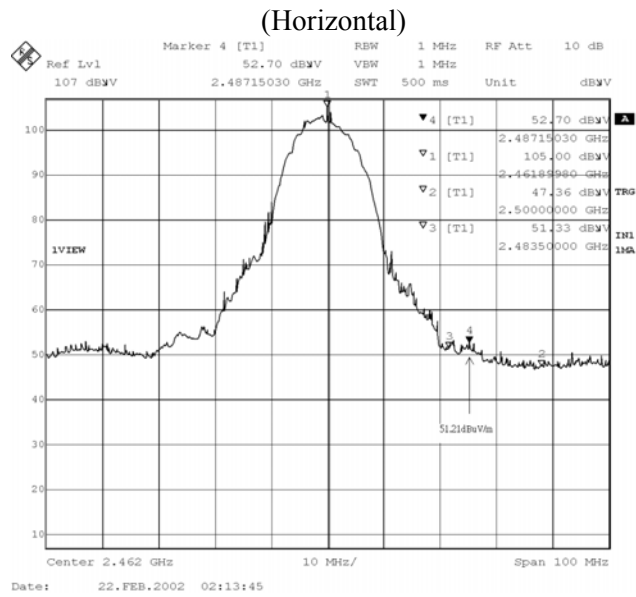
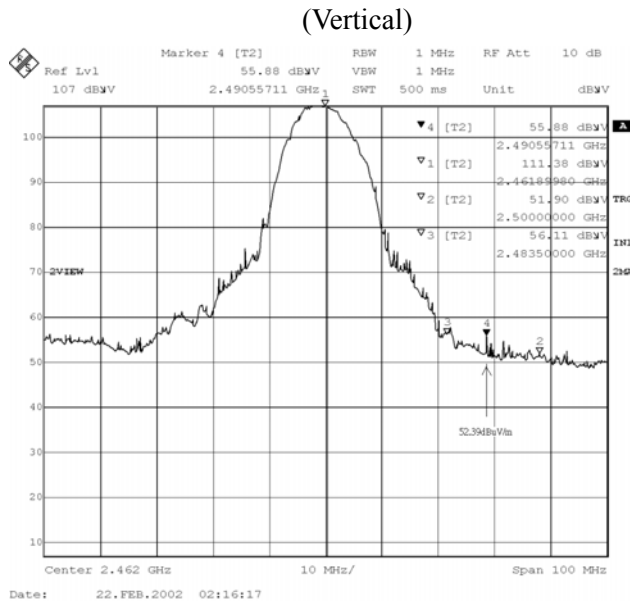


Figure Channel 11:



Product : Wireless LAN PCMCIA Card
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (11Mbps)

RF Radiated Measurement:

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
11(Horizontal)	2490.55	52.44	50.95	54	Pass
11(Vertical)	2484.34	57.10	53.61	54	Pass

Figure Channel 11:

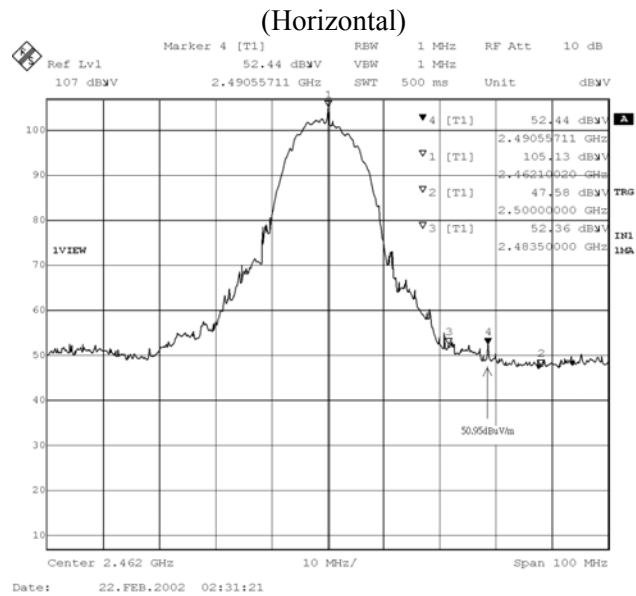
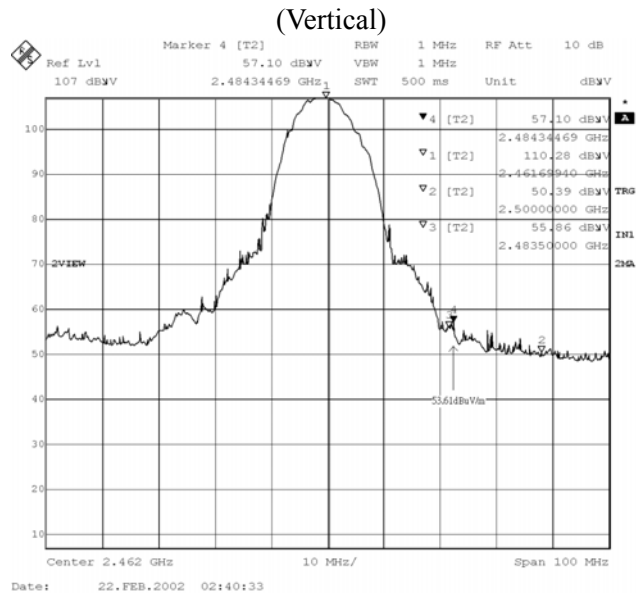


Figure Channel 11:



7. Occupied Bandwidth

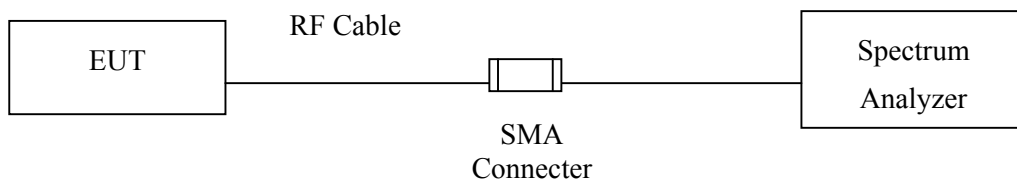
7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum	Advantest	R3272 / 72421194	May, 2001

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

7.2. Test Setup



7.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

7.4. Standard Requirement

The minimum bandwidth shall be at least 500kHz.

7.5. Test Result of Occupied Bandwidth

Product : Wireless LAN PCMCIA Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (1Mbps)	2410.95	9900	>500	Pass
1 (11Mbps)	2411.00	10250	>500	Pass

Figure Channel 1: 1Mbps

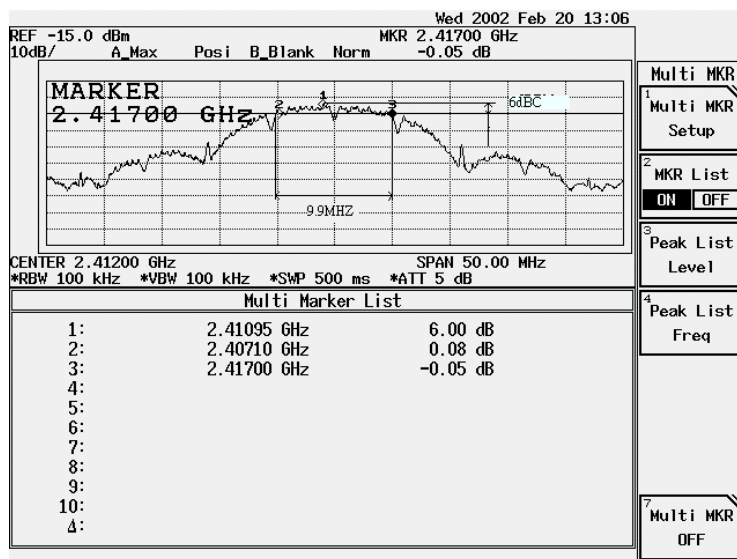
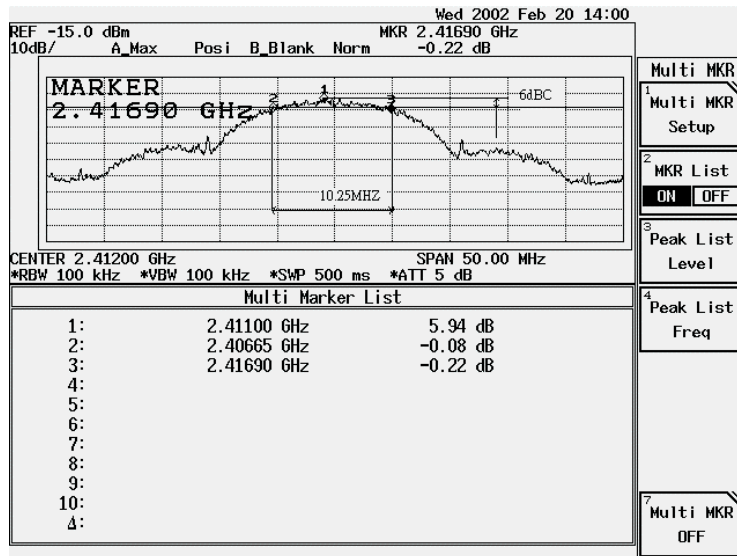


Figure Channel 1: 11Mbps



Product : Wireless LAN PCMCIA Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.1 OATS
 Test Mode : Channel 6

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (1Mbps)	2436.00	9750	>500	Pass
6 (11Mbps)	2436.00	10250	>500	Pass

Figure Channel 6:

1Mbps

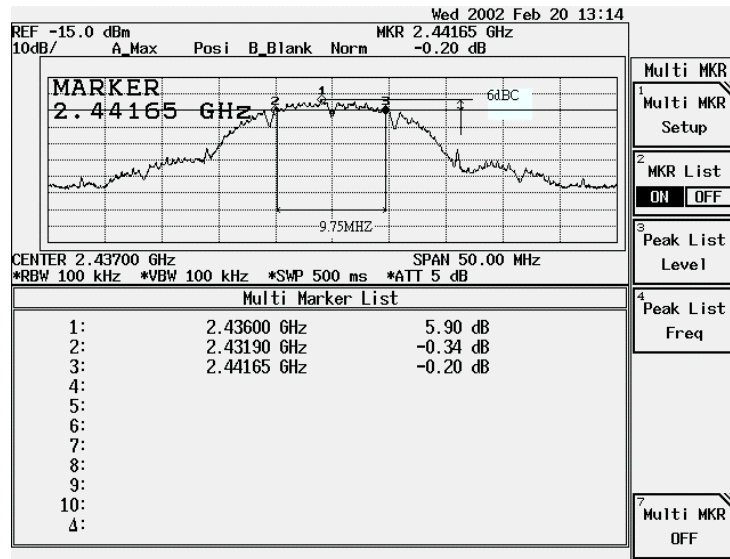
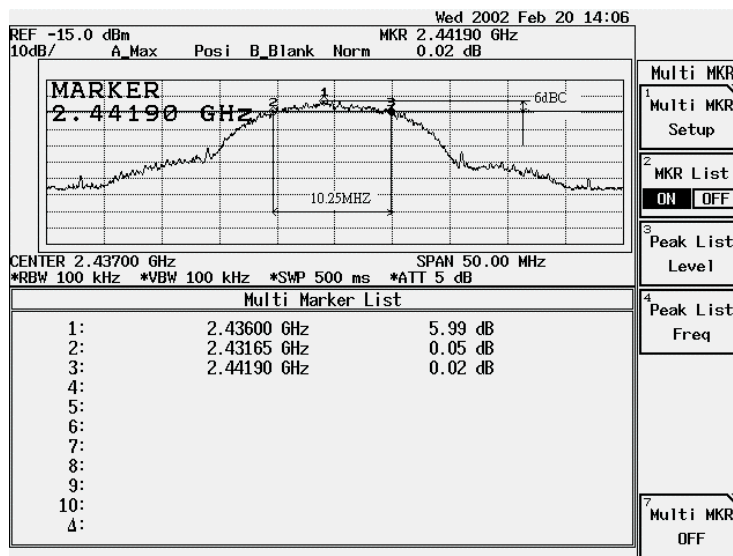


Figure Channel 6:

11Mbps



Product : Wireless LAN PCMCIA Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.1 OATS
 Test Mode : Channel 11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (1Mbps)	2461.00	9450	>500	Pass
11 (11Mbps)	2461.00	10250	>500	Pass

Figure Channel 11: 1Mbps

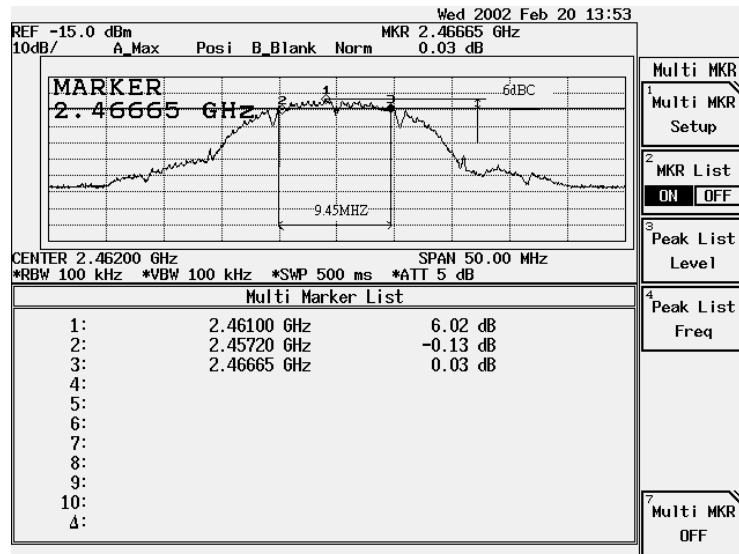
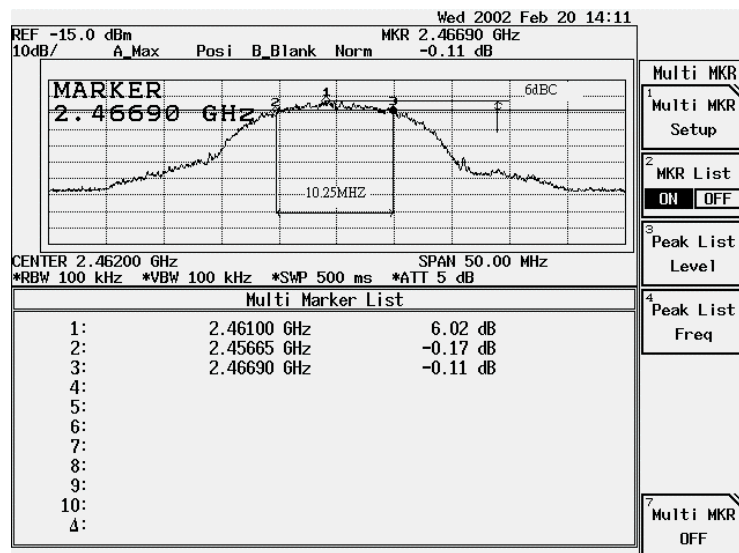


Figure Channel 11: 11Mbps



8. Transmitter Power Density

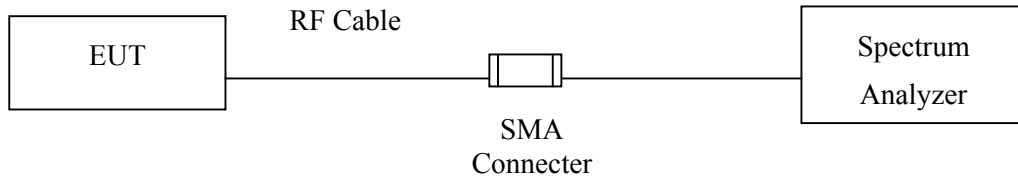
8.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum	Advantest	R3272 / 72421194	May, 2001

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

8.2. Test Setup



8.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

8.4. Standard Requirement

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.5. Test Result of Transmitter Power Density

Product : Wireless LAN PCMCIA Card
 Test Item : Transmitter Power Density Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
1 (1Mbps)	2411.988	-44.20	< 8dBm	Pass
1 (11Mbps)	2411.322	-17.71	< 8dBm	Pass

Figure Channel 1: 1Mbps

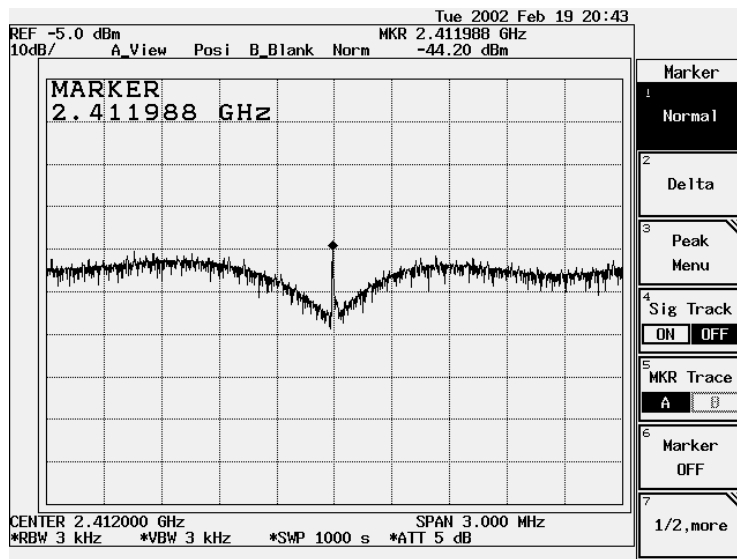
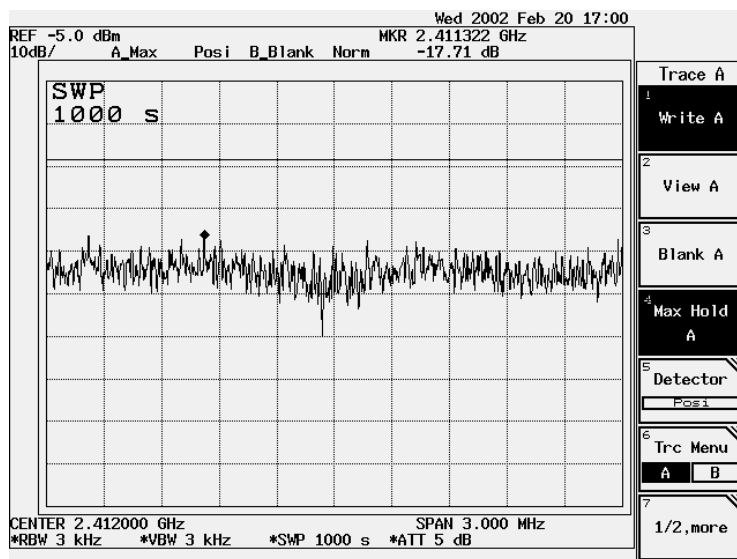


Figure Channel 1: 11Mbps



Product : Wireless LAN PCMCIA Card
 Test Item : Transmitter Power Density Data
 Test Site : No.1 OATS
 Test Mode : Channel 6

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (1Mbps)	2436.988	-43.00	< 8dBm	Pass
6 (11Mbps)	2436.319	-38.38	< 8dBm	Pass

Figure Channel 6:

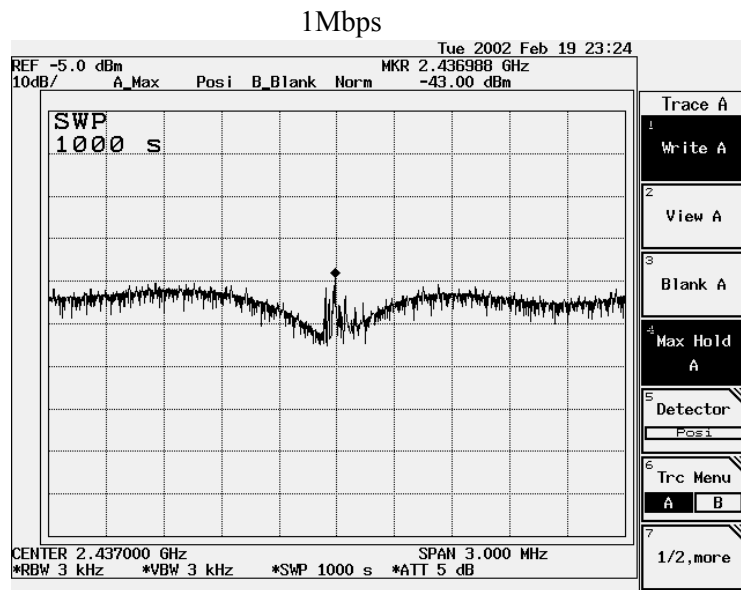
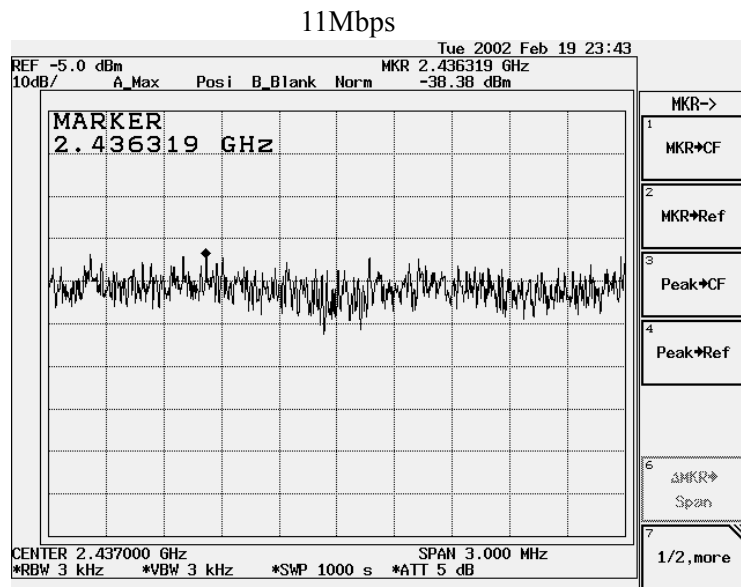


Figure Channel 6:



Product : Wireless LAN PCMCIA Card
 Test Item : Transmitter Power Density Data
 Test Site : No.1 OATS
 Test Mode : Channel 11

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (1Mbps)	2461.988	-42.57	< 8dBm	Pass
11 (11Mbps)	2461.319	-41.38	< 8dBm	Pass

Figure Channel 11: 1Mbps

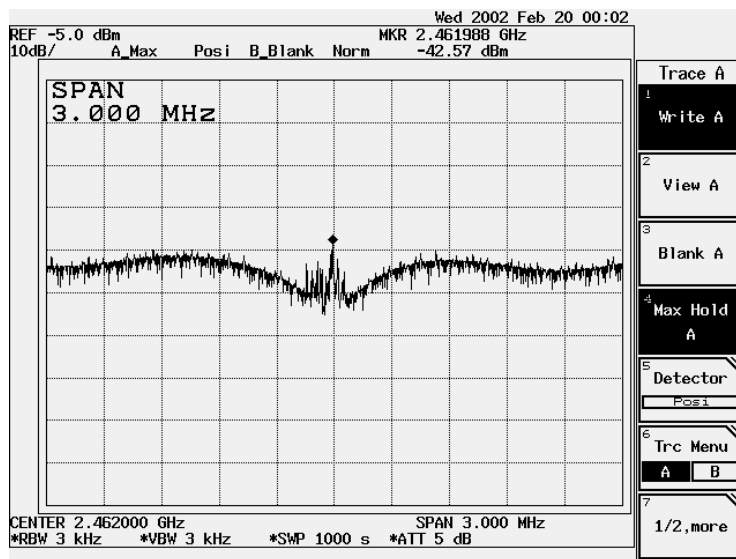
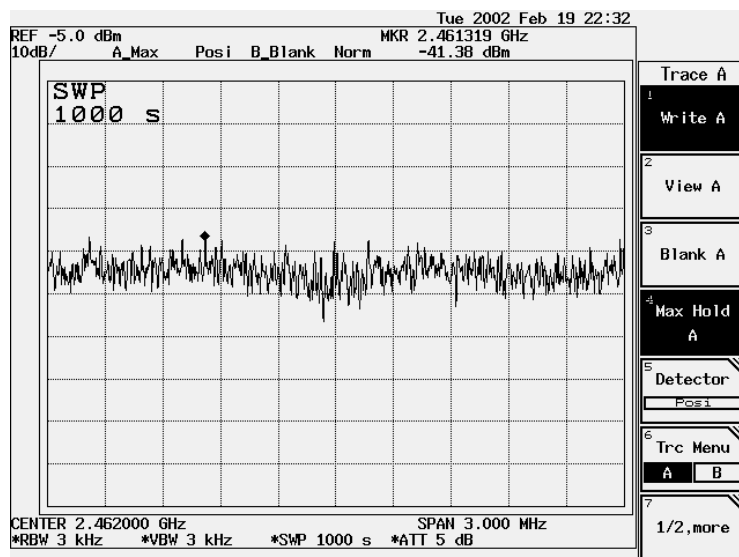


Figure Channel 11: 11Mbps



9. Processing Gain

9.1. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

9.2. Minimum Standard

The processing gain shall be at least 10 dB.

9.3. Method of Measurement

The processing gain of this spread spectrum was measured the CW jamming method. The Section 9.1 illustrates the measurement setup. The output power of the spread spectrum transmitter is fixed and the output power of jammer is adjustable. The frequency of jammer was stepped through the pass band of nominal channel in 50kHz steps. In each frequency step of the jammer, the output power of jammer is adjusted to cause the Bit Error Rate (BER) to be 1.0×10^{-6} . The power levels are recorded to calculate the J/S as shown in Table 1.

9.4. Calculation of Processing Gain:

The processing gain was determined by measuring the jamming margin of the EUT and using the following formula:

$$G_p = (S/N)_o + M_j + L_{sys}$$

Where $(S/N)_o$ is the required signal to noise ratio at the receiver output

M_j is the jammer to signal ratio (J/S)

L_{sys} is the system loss

The $(S/N)_o$ is calculated from:

$$P_e = 1/2 \exp(-1/2(S/N)_o) \quad ; \quad P_e = \text{probability of error (BER)}$$

For the $P_e(\text{BER}) = 1.0 \times 10^{-6}$, the required $(S/N)_o$ is 16.4dB

From Measurement, the minimum J/S(M_j) is $\geq 8.4\text{dB}$

We assume the system loss is 2dB.

Therefore the processing gain is calculated below:

$$G_p = (S/N)_o + M_j + L_{sys} = 16.4 + (-8.4) + 2 = 10 \text{ (dB)}$$

9.5. Test Result of Processing Gain

Product : Wireless LAN PCMCIA Card
 Test Item : Processing Gain Data
 Test Site : No.1 OATS
 Test Mode : Normal Operation

11Mbps Channel 1 (2412MHz) Processing Gain							
Gp=(S/N)o+Lsys+(Jr/Sr)							
Frequency	(S/N)o	Sr	Jr	Jr/Sr	Lsys	FER	Gp
(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2403.5	16.4	-62	-60.6	1.4	2	6.2	19.8
2403.55	16.4	-62	-60.9	1.1	2	4.8	19.5
2403.6	16.4	-62	-59.8	2.2	2	5.6	20.6
2403.65	16.4	-62	-61.6	0.4	2	5.4	18.8
2403.7	16.4	-62	-61.3	0.7	2	7.1	19.1
2403.75	16.4	-62	-61.8	0.2	2	6.3	18.6
2403.8	16.4	-62	-60.5	1.5	2	4.8	19.9
2403.85	16.4	-62	-61.7	0.3	2	4.5	18.7
2403.9	16.4	-62	-60.6	1.4	2	5.6	19.8
2403.95	16.4	-62	-61.7	0.3	2	4.2	18.7
2404	16.4	-62	-60.4	1.6	2	4.7	20
2404.05	16.4	-62	-59.7	2.3	2	7	20.7
2404.1	16.4	-62	-60.5	1.5	2	5.2	19.9
2404.15	16.4	-62	-61.3	0.7	2	6.9	19.1
2404.2	16.4	-62	-60.9	1.1	2	5.1	19.5
2404.25	16.4	-62	-60.2	1.8	2	6.3	20.2
2404.3	16.4	-62	-60.3	1.7	2	5.7	20.1
2404.35	16.4	-62	-61.6	0.4	2	4.6	18.8
2404.4	16.4	-62	-61.3	0.7	2	4.9	19.1
2404.45	16.4	-62	-60.5	1.5	2	4.6	19.9
2404.5	16.4	-62	-61	1	2	5.2	19.4
2404.55	16.4	-62	-62.1	-0.1	2	6.1	18.3
2404.6	16.4	-62	-61.6	0.4	2	6.4	18.8
2404.65	16.4	-62	-61.9	0.1	2	4.2	18.5
2404.7	16.4	-62	-62.1	-0.1	2	5.7	18.3
2404.75	16.4	-62	-62.2	-0.2	2	5.9	18.2
2404.8	16.4	-62	-61	1	2	7	19.4
2404.85	16.4	-62	-62	0	2	7.3	18.4

2404.9	16.4	-62	-62.9	-0.9	2	5.1	17.5
2404.95	16.4	-62	-62	0	2	5.5	18.4
2405	16.4	-62	-60.9	1.1	2	6	19.5
2405.05	16.4	-62	-61.9	0.1	2	6.9	18.5
2405.1	16.4	-62	-61.4	0.6	2	5.2	19
2405.15	16.4	-62	-61.2	0.8	2	4.5	19.2
2405.2	16.4	-62	-61.3	0.7	2	4.4	19.1
2405.25	16.4	-62	-62.3	-0.3	2	7	18.1
2405.3	16.4	-62	-61	1	2	6.5	19.4
2405.35	16.4	-62	-62.5	-0.5	2	6.9	17.9
2405.4	16.4	-62	-61.2	0.8	2	4.1	19.2
2405.45	16.4	-62	-61.8	0.2	2	6.3	18.6
2405.5	16.4	-62	-62	0	2	7.2	18.4
2405.55	16.4	-62	-62.7	-0.7	2	6.7	17.7
2405.6	16.4	-62	-63	-1	2	6.8	17.4
2405.65	16.4	-62	-62.6	-0.6	2	7.2	17.8
2405.7	16.4	-62	-63.4	-1.4	2	5.1	17
2405.75	16.4	-62	-63.2	-1.2	2	6.5	17.2
2405.8	16.4	-62	-62.8	-0.8	2	7.8	17.6
2405.85	16.4	-62	-64	-2	2	7.2	16.4
2405.9	16.4	-62	-64	-2	2	5.2	16.4
2405.95	16.4	-62	-63	-1	2	6	17.4
2406	16.4	-62	-63	-1	2	5	17.4
2406.05	16.4	-62	-63	-1	2	5.7	17.4
2406.1	16.4	-62	-63.1	-1.1	2	4	17.3
2406.15	16.4	-62	-64	-2	2	4.8	16.4
2406.2	16.4	-62	-62.8	-0.8	2	6.3	17.6
2406.25	16.4	-62	-63.5	-1.5	2	7.7	16.9
2406.3	16.4	-62	-64.4	-2.4	2	6.8	16
2406.35	16.4	-62	-63.6	-1.6	2	5.4	16.8
2406.4	16.4	-62	-64.2	-2.2	2	5.2	16.2
2406.45	16.4	-62	-64.6	-2.6	2	5.5	15.8
2406.5	16.4	-62	-63.5	-1.5	2	4.3	16.9
2406.55	16.4	-62	-64.2	-2.2	2	6.7	16.2
2406.6	16.4	-62	-65.5	-3.5	2	5.8	14.9
2406.65	16.4	-62	-65.4	-3.4	2	5.3	15
2406.7	16.4	-62	-64.4	-2.4	2	5.5	16
2406.75	16.4	-62	-63.9	-1.9	2	7.6	16.5
2406.8	16.4	-62	-63.9	-1.9	2	6.4	16.5
2406.85	16.4	-62	-65.3	-3.3	2	5.1	15.1

2406.9	16.4	-62	-65.4	-3.4	2	6.1	15
2406.95	16.4	-62	-64.9	-2.9	2	5.1	15.5
2407	16.4	-62	-64.9	-2.9	2	5.2	15.5
2407.05	16.4	-62	-64.9	-2.9	2	5.2	15.5
2407.1	16.4	-62	-66.5	-4.5	2	4.7	13.9
2407.15	16.4	-62	-66.2	-4.2	2	7.7	14.2
2407.2	16.4	-62	-65.2	-3.2	2	5.6	15.2
2407.25	16.4	-62	-65.2	-3.2	2	5.3	15.2
2407.3	16.4	-62	-65.3	-3.3	2	4.5	15.1
2407.35	16.4	-62	-65.2	-3.2	2	4.7	15.2
2407.4	16.4	-62	-66	-4	2	4.4	14.4
2407.45	16.4	-62	-67	-5	2	6	13.4
2407.5	16.4	-62	-66.5	-4.5	2	5.3	13.9
2407.55	16.4	-62	-65.9	-3.9	2	6	14.5
2407.6	16.4	-62	-66.6	-4.6	2	5.7	13.8
2407.65	16.4	-62	-66.4	-4.4	2	5.1	14
2407.7	16.4	-62	-67.2	-5.2	2	7.4	13.2
2407.75	16.4	-62	-67.4	-5.4	2	7.3	13
2407.8	16.4	-62	-67.3	-5.3	2	7.6	13.1
2407.85	16.4	-62	-67.1	-5.1	2	7.5	13.3
2407.9	16.4	-62	-65.9	-3.9	2	5.4	14.5
2407.95	16.4	-62	-66.8	-4.8	2	7.2	13.6
2408	16.4	-62	-67.9	-5.9	2	5.6	12.5
2408.05	16.4	-62	-66.6	-4.6	2	7.3	13.8
2408.1	16.4	-62	-67.3	-5.3	2	4.8	13.1
2408.15	16.4	-62	-67.1	-5.1	2	5.5	13.3
2408.2	16.4	-62	-67.6	-5.6	2	6.7	12.8
2408.25	16.4	-62	-68.1	-6.1	2	4.3	12.3
2408.3	16.4	-62	-67.3	-5.3	2	5.8	13.1
2408.35	16.4	-62	-66.8	-4.8	2	7.4	13.6
2408.4	16.4	-62	-67.2	-5.2	2	4.3	13.2
2408.45	16.4	-62	-67.6	-5.6	2	6.8	12.8
2408.5	16.4	-62	-67.6	-5.6	2	7.7	12.8
2408.55	16.4	-62	-67.1	-5.1	2	7.1	13.3
2408.6	16.4	-62	-67.9	-5.9	2	5.6	12.5
2408.65	16.4	-62	-67.4	-5.4	2	6.8	13
2408.7	16.4	-62	-68.3	-6.3	2	4.8	12.1
2408.75	16.4	-62	-68.2	-6.2	2	6.3	12.2
2408.8	16.4	-62	-67	-5	2	4.8	13.4
2408.85	16.4	-62	-68.3	-6.3	2	6.7	12.1

2408.9	16.4	-62	-68.3	-6.3	2	4.8	12.1
2408.95	16.4	-62	-68.6	-6.6	2	5.5	11.8
2409	16.4	-62	-68.5	-6.5	2	7.3	11.9
2409.05	16.4	-62	-67.9	-5.9	2	7.2	12.5
2409.1	16.4	-62	-68.7	-6.7	2	7.8	11.7
2409.15	16.4	-62	-68.7	-6.7	2	6.6	11.7
2409.2	16.4	-62	-68.2	-6.2	2	7.1	12.2
2409.25	16.4	-62	-67.9	-5.9	2	5.8	12.5
2409.3	16.4	-62	-69.7	-7.7	2	5.4	10.7
2409.35	16.4	-62	-69	-7	2	5.1	11.4
2409.4	16.4	-62	-68.4	-6.4	2	7.9	12
2409.45	16.4	-62	-68.4	-6.4	2	5.9	12
2409.5	16.4	-62	-68.5	-6.5	2	5.8	11.9
2409.55	16.4	-62	-68.7	-6.7	2	6.8	11.7
2409.6	16.4	-62	-68.6	-6.6	2	4	11.8
2409.65	16.4	-62	-69.6	-7.6	2	4.8	10.8
2409.7	16.4	-62	-68.6	-6.6	2	7	11.8
2409.75	16.4	-62	-68	-6	2	7.5	12.4
2409.8	16.4	-62	-68.7	-6.7	2	6.3	11.7
2409.85	16.4	-62	-68.4	-6.4	2	7.1	12
2409.9	16.4	-62	-69.8	-7.8	2	4.5	10.6
2409.95	16.4	-62	-69.4	-7.4	2	6.3	11
2410	16.4	-62	-69.7	-7.7	2	4.6	10.7
2410.05	16.4	-62	-68.8	-6.8	2	3.7	11.6
2410.1	16.4	-62	-69.1	-7.1	2	6.5	11.3
2410.15	16.4	-62	-68.7	-6.7	2	6.7	11.7
2410.2	16.4	-62	-67.8	-5.8	2	4.6	12.6
2410.25	16.4	-62	-69.1	-7.1	2	6.3	11.3
2410.3	16.4	-62	-68.5	-6.5	2	6.2	11.9
2410.35	16.4	-62	-68.3	-6.3	2	5.4	12.1
2410.4	16.4	-62	-68.5	-6.5	2	4.5	11.9
2410.45	16.4	-62	-68.7	-6.7	2	5.4	11.7
2410.5	16.4	-62	-68.4	-6.4	2	4.5	12
2410.55	16.4	-62	-68	-6	2	4	12.4
2410.6	16.4	-62	-68.3	-6.3	2	4.4	12.1
2410.65	16.4	-62	-67.8	-5.8	2	4.6	12.6
2410.7	16.4	-62	-68	-6	2	6.6	12.4
2410.75	16.4	-62	-68.5	-6.5	2	7.6	11.9
2410.8	16.4	-62	-69.4	-7.4	2	4.8	11
2410.85	16.4	-62	-69.4	-7.4	2	6.9	11

2410.9	16.4	-62	-68.8	-6.8	2	5.4	11.6
2410.95	16.4	-62	-68	-6	2	5.5	12.4
2411	16.4	-62	-68.1	-6.1	2	3.9	12.3
2411.05	16.4	-62	-67.7	-5.7	2	5.3	12.7
2411.1	16.4	-62	-69.1	-7.1	2	6.5	11.3
2411.15	16.4	-62	-67.5	-5.5	2	7	12.9
2411.2	16.4	-62	-68.6	-6.6	2	6	11.8
2411.25	16.4	-62	-69.2	-7.2	2	7	11.2
2411.3	16.4	-62	-68.5	-6.5	2	7.2	11.9
2411.35	16.4	-62	-69.1	-7.1	2	4.7	11.3
2411.4	16.4	-62	-69.3	-7.3	2	6.1	11.1
2411.45	16.4	-62	-68.2	-6.2	2	6.2	12.2
2411.5	16.4	-62	-68.1	-6.1	2	6.6	12.3
2411.55	16.4	-62	-68.6	-6.6	2	4.6	11.8
2411.6	16.4	-62	-67.7	-5.7	2	5.7	12.7
2411.65	16.4	-62	-68.8	-6.8	2	6.8	11.6
2411.7	16.4	-62	-68.4	-6.4	2	7.5	12
2411.75	16.4	-62	-69	-7	2	5.1	11.4
2411.8	16.4	-62	-69.8	-7.8	2	4.3	10.6
2411.85	16.4	-62	-68.3	-6.3	2	7.3	12.1
2411.9	16.4	-62	-69.5	-7.5	2	5.8	10.9
2411.95	16.4	-62	-68.1	-6.1	2	6.9	12.3
2412	16.4	-62	-69.3	-7.3	2	4.1	11.1
2412.05	16.4	-62	-69.2	-7.2	2	5.9	11.2
2412.1	16.4	-62	-68.9	-6.9	2	6.3	11.5
2412.15	16.4	-62	-68.1	-6.1	2	5.7	12.3
2412.2	16.4	-62	-68	-6	2	7	12.4
2412.25	16.4	-62	-68.7	-6.7	2	6.8	11.7
2412.3	16.4	-62	-68.1	-6.1	2	5.9	12.3
2412.35	16.4	-62	-68.4	-6.4	2	7.4	12
2412.4	16.4	-62	-68.6	-6.6	2	7.4	11.8
2412.45	16.4	-62	-67.6	-5.6	2	6.7	12.8
2412.5	16.4	-62	-68.3	-6.3	2	6.4	12.1
2412.55	16.4	-62	-67.4	-5.4	2	7	13
2412.6	16.4	-62	-68.8	-6.8	2	4.9	11.6
2412.65	16.4	-62	-67.5	-5.5	2	6.7	12.9
2412.7	16.4	-62	-67.4	-5.4	2	6.9	13
2412.75	16.4	-62	-67.5	-5.5	2	6	12.9
2412.8	16.4	-62	-68.5	-6.5	2	6.7	11.9
2412.85	16.4	-62	-67.3	-5.3	2	4.9	13.1

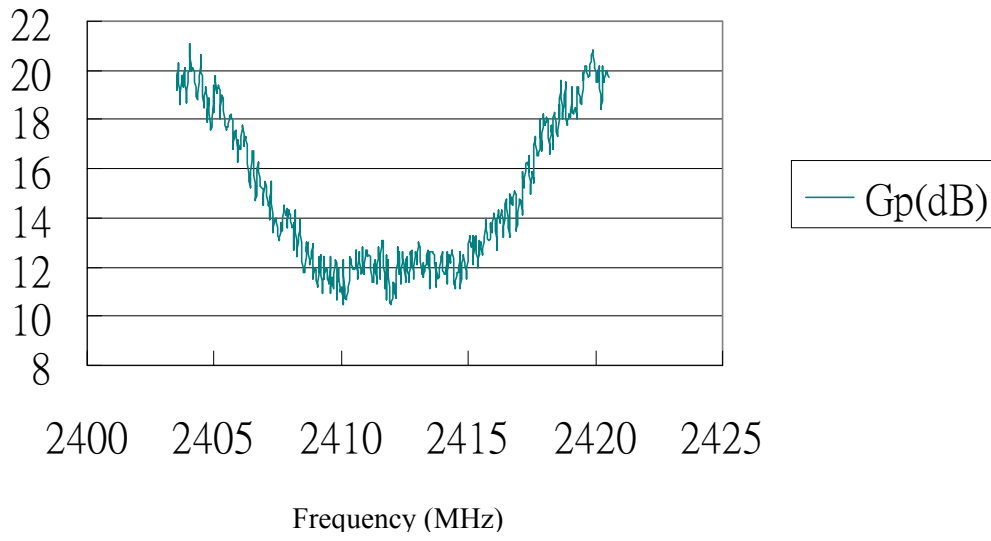
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2412.95	16.4	-62	-67.1	-5.1	2	5	13.3
2413	16.4	-62	-67.3	-5.3	2	5.1	13.1
2413.05	16.4	-62	-68.9	-6.9	2	5.7	11.5
2413.1	16.4	-62	-67.7	-5.7	2	4.4	12.7
2413.15	16.4	-62	-67.9	-5.9	2	4.6	12.5
2413.2	16.4	-62	-68.6	-6.6	2	6.4	11.8
2413.25	16.4	-62	-67.5	-5.5	2	4.8	12.9
2413.3	16.4	-62	-69.3	-7.3	2	3.8	11.1
2413.35	16.4	-62	-68.9	-6.9	2	6.5	11.5
2413.4	16.4	-62	-68	-6	2	6.7	12.4
2413.45	16.4	-62	-67.8	-5.8	2	4.1	12.6
2413.5	16.4	-62	-69.2	-7.2	2	4.8	11.2
2413.55	16.4	-62	-67.9	-5.9	2	5.9	12.5
2413.6	16.4	-62	-67.9	-5.9	2	4	12.5
2413.65	16.4	-62	-69.1	-7.1	2	6.5	11.3
2413.7	16.4	-62	-67.8	-5.8	2	6.9	12.6
2413.75	16.4	-62	-68.1	-6.1	2	4	12.3
2413.8	16.4	-62	-68	-6	2	7.3	12.4
2413.85	16.4	-62	-68.2	-6.2	2	6	12.2
2413.9	16.4	-62	-68.4	-6.4	2	6.1	12
2413.95	16.4	-62	-68.8	-6.8	2	6.1	11.6
2414	16.4	-62	-68.1	-6.1	2	5.8	12.3
2414.05	16.4	-62	-69.4	-7.4	2	5.7	11
2414.1	16.4	-62	-69.3	-7.3	2	5.1	11.1
2414.15	16.4	-62	-68	-6	2	5	12.4
2414.2	16.4	-62	-67.9	-5.9	2	3.7	12.5
2414.25	16.4	-62	-69.3	-7.3	2	7.5	11.1
2414.3	16.4	-62	-68.5	-6.5	2	6.3	11.9
2414.35	16.4	-62	-67.6	-5.6	2	5.6	12.8
2414.4	16.4	-62	-68.6	-6.6	2	6.3	11.8
2414.45	16.4	-62	-69	-7	2	4.8	11.4
2414.5	16.4	-62	-68.6	-6.6	2	5.8	11.8
2414.55	16.4	-62	-69.2	-7.2	2	4.6	11.2
2414.6	16.4	-62	-68.6	-6.6	2	6.2	11.8
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2414.7	16.4	-62	-68.4	-6.4	2	5.6	12
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2414.85	16.4	-62	-69.2	-7.2	2	4	11.2

2414.9	16.4	-62	-68.2	-6.2	2	6.7	12.2
2414.95	16.4	-62	-68.4	-6.4	2	4.7	12
2415	16.4	-62	-68.9	-6.9	2	7.4	11.5
2415.05	16.4	-62	-68.2	-6.2	2	4.4	12.2
2415.1	16.4	-62	-67.3	-5.3	2	5.3	13.1
2415.15	16.4	-62	-68.7	-6.7	2	6.7	11.7
2415.2	16.4	-62	-66.9	-4.9	2	4.2	13.5
2415.25	16.4	-62	-68.6	-6.6	2	5.8	11.8
2415.3	16.4	-62	-67.3	-5.3	2	6.7	13.1
2415.35	16.4	-62	-68.7	-6.7	2	7.5	11.7
2415.4	16.4	-62	-68	-6	2	5.9	12.4
2415.45	16.4	-62	-68.8	-6.8	2	7.4	11.6
2415.5	16.4	-62	-68.3	-6.3	2	6.4	12.1
2415.55	16.4	-62	-68.1	-6.1	2	7.9	12.3
2415.6	16.4	-62	-67.6	-5.6	2	5.1	12.8
2415.65	16.4	-62	-66.9	-4.9	2	6.3	13.5
2415.7	16.4	-62	-66.7	-4.7	2	5.4	13.7
2415.75	16.4	-62	-67.6	-5.6	2	6.8	12.8
2415.8	16.4	-62	-66.6	-4.6	2	5.7	13.8
2415.85	16.4	-62	-66.7	-4.7	2	5.9	13.7
2415.9	16.4	-62	-67.4	-5.4	2	4.9	13
2415.95	16.4	-62	-67.1	-5.1	2	6.1	13.3
2416	16.4	-62	-66.5	-4.5	2	5.8	13.9
2416.05	16.4	-62	-66.5	-4.5	2	6.7	13.9
2416.1	16.4	-62	-66.9	-4.9	2	6.4	13.5
2416.15	16.4	-62	-67.4	-5.4	2	4.5	13
2416.2	16.4	-62	-66.3	-4.3	2	7.9	14.1
2416.25	16.4	-62	-67.5	-5.5	2	6.6	12.9
2416.3	16.4	-62	-67.2	-5.2	2	5.7	13.2
2416.35	16.4	-62	-67.1	-5.1	2	6	13.3
2416.4	16.4	-62	-66	-4	2	5.5	14.4
2416.45	16.4	-62	-66.3	-4.3	2	4.8	14.1
2416.5	16.4	-62	-67	-5	2	5.9	13.4
2416.55	16.4	-62	-67	-5	2	6.5	13.4
2416.6	16.4	-62	-67.2	-5.2	2	6.3	13.2
2416.65	16.4	-62	-66.2	-4.2	2	5.9	14.2
2416.7	16.4	-62	-66.1	-4.1	2	6.2	14.3
2416.75	16.4	-62	-65.8	-3.8	2	6.4	14.6
2416.8	16.4	-62	-66.6	-4.6	2	7.3	13.8
2416.85	16.4	-62	-66.5	-4.5	2	5.5	13.9

2416.9	16.4	-62	-66.9	-4.9	2	5	13.5
2416.95	16.4	-62	-66.3	-4.3	2	6.5	14.1
2417	16.4	-62	-65.7	-3.7	2	4.6	14.7
2417.05	16.4	-62	-65.1	-3.1	2	4.2	15.3
2417.1	16.4	-62	-65.8	-3.8	2	6.3	14.6
2417.15	16.4	-62	-65	-3	2	3.8	15.4
2417.2	16.4	-62	-65.2	-3.2	2	4.5	15.2
2417.25	16.4	-62	-64.3	-2.3	2	5.3	16.1
2417.3	16.4	-62	-65.3	-3.3	2	5.1	15.1
2417.35	16.4	-62	-64.4	-2.4	2	4.6	16
2417.4	16.4	-62	-64.9	-2.9	2	6.7	15.5
2417.45	16.4	-62	-64.7	-2.7	2	3.7	15.7
2417.5	16.4	-62	-63.5	-1.5	2	3.5	16.9
2417.55	16.4	-62	-63.5	-1.5	2	4.6	16.9
2417.6	16.4	-62	-63.4	-1.4	2	7.3	17
2417.65	16.4	-62	-64	-2	2	5.8	16.4
2417.7	16.4	-62	-63.7	-1.7	2	5.6	16.7
2417.75	16.4	-62	-62.5	-0.5	2	4.7	17.9
2417.8	16.4	-62	-63.8	-1.8	2	6.3	16.6
2417.85	16.4	-62	-62.2	-0.2	2	7.3	18.2
2417.9	16.4	-62	-62.3	-0.3	2	7	18.1
2417.95	16.4	-62	-63.2	-1.2	2	4.3	17.2
2418	16.4	-62	-63.2	-1.2	2	5.6	17.2
2418.05	16.4	-62	-62.8	-0.8	2	5.3	17.6
2418.1	16.4	-62	-64.1	-2.1	2	7.4	16.3
2418.15	16.4	-62	-63.4	-1.4	2	6.3	17
2418.2	16.4	-62	-63	-1	2	7	17.4
2418.25	16.4	-62	-62.2	-0.2	2	3.9	18.2
2418.3	16.4	-62	-62.5	-0.5	2	6.2	17.9
2418.35	16.4	-62	-62.4	-0.4	2	5.6	18
2418.4	16.4	-62	-62.1	-0.1	2	6.1	18.3
2418.45	16.4	-62	-62.6	-0.6	2	6.3	17.8
2418.5	16.4	-62	-62.4	-0.4	2	6.9	18
2418.55	16.4	-62	-61.6	0.4	2	4.3	18.8
2418.6	16.4	-62	-61.7	0.3	2	5.2	18.7
2418.65	16.4	-62	-61.2	0.8	2	5.3	19.2
2418.7	16.4	-62	-62.6	-0.6	2	7.8	17.8
2418.75	16.4	-62	-61.9	0.1	2	7.5	18.5
2418.8	16.4	-62	-61.5	0.5	2	6.3	18.9
2418.85	16.4	-62	-62.5	-0.5	2	3.9	17.9

2418.9	16.4	-62	-62.3	-0.3	2	5.9	18.1
2418.95	16.4	-62	-61.8	0.2	2	7.4	18.6
2419	16.4	-62	-62	0	2	6.7	18.4
2419.05	16.4	-62	-61.3	0.7	2	6.5	19.1
2419.1	16.4	-62	-61.2	0.8	2	7.2	19.2
2419.15	16.4	-62	-61.5	0.5	2	6.7	18.9
2419.2	16.4	-62	-62.7	-0.7	2	7.1	17.7
2419.25	16.4	-62	-61.6	0.4	2	4.4	18.8
2419.3	16.4	-62	-62.7	-0.7	2	5	17.7
2419.35	16.4	-62	-62.5	-0.5	2	4.3	17.9
2419.4	16.4	-62	-61.9	0.1	2	5.4	18.5
2419.45	16.4	-62	-62.3	-0.3	2	4.1	18.1
2419.5	16.4	-62	-61.7	0.3	2	4.7	18.7
2419.55	16.4	-62	-60.9	1.1	2	5.8	19.5
2419.6	16.4	-62	-61	1	2	7.6	19.4
2419.65	16.4	-62	-60.6	1.4	2	5.2	19.8
2419.7	16.4	-62	-60.9	1.1	2	5	19.5
2419.75	16.4	-62	-60.6	1.4	2	5.3	19.8
2419.8	16.4	-62	-59.9	2.1	2	7.3	20.5
2419.85	16.4	-62	-60.9	1.1	2	5.8	19.5
2419.9	16.4	-62	-60.9	1.1	2	5.6	19.5
2419.95	16.4	-62	-60.3	1.7	2	4.2	20.1
2420	16.4	-62	-59.7	2.3	2	5.3	20.7
2420.05	16.4	-62	-61.8	0.2	2	6.2	18.6
2420.1	16.4	-62	-60.4	1.6	2	6.6	20
2420.15	16.4	-62	-61.1	0.9	2	6.6	19.3
2420.2	16.4	-62	-60.3	1.7	2	6.2	20.1
2420.25	16.4	-62	-60.6	1.4	2	6.7	19.8
2420.3	16.4	-62	-61.6	0.4	2	4.6	18.8
2420.35	16.4	-62	-60.2	1.8	2	5	20.2
2420.4	16.4	-62	-61	1	2	5.2	19.4
2420.45	16.4	-62	-59.9	2.1	2	5.2	20.5
2420.5	16.4	-62	-60.8	1.2	2	6.5	19.6
Processing Gain(dB)@20th Percentile=11.9							

Gp(dB)



11Mbps Channel 6 (2437MHz) Processing Gain							
Gp=(S/N)o+Lsys+(Jr/Sr)							
Frequency	(S/N)o	Sr	Jr	Jr/Sr	Lsys	FER	Gp
(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2433.5	16.4	-62	-59.3	2.7	2	5.5	21.1
2433.55	16.4	-62	-60.3	1.7	2	6.8	20.1
2433.6	16.4	-62	-60.5	1.5	2	6.4	19.9
2433.65	16.4	-62	-60	2	2	4.5	20.4
2433.7	16.4	-62	-60.4	1.6	2	6.4	20
2433.75	16.4	-62	-62	0	2	5.7	18.4
2433.8	16.4	-62	-60.3	1.7	2	6.3	20.1
2433.85	16.4	-62	-61.5	0.5	2	6.2	18.9
2433.9	16.4	-62	-61.5	0.5	2	4	18.9
2433.95	16.4	-62	-60.3	1.7	2	4.4	20.1
2434	16.4	-62	-61.2	0.8	2	5.3	19.2
2434.05	16.4	-62	-59.9	2.1	2	6	20.5
2434.1	16.4	-62	-60.2	1.8	2	4.8	20.2
2434.15	16.4	-62	-60.1	1.9	2	7.1	20.3
2434.2	16.4	-62	-60	2	2	6.8	20.4
2434.25	16.4	-62	-60.3	1.7	2	7.6	20.1
2434.3	16.4	-62	-60.2	1.8	2	6.8	20.2
2434.35	16.4	-62	-59.9	2.1	2	6.5	20.5
2434.4	16.4	-62	-60.2	1.8	2	5.9	20.2
2434.45	16.4	-62	-61.3	0.7	2	4.7	19.1
2434.5	16.4	-62	-61.4	0.6	2	4.5	19
2434.55	16.4	-62	-62.4	-0.4	2	5.2	18
2434.6	16.4	-62	-60.9	1.1	2	6	19.5
2434.65	16.4	-62	-60.8	1.2	2	4.3	19.6
2434.7	16.4	-62	-61.8	0.2	2	4.7	18.6
2434.75	16.4	-62	-62.2	-0.2	2	6.4	18.2
2434.8	16.4	-62	-61.1	0.9	2	6.5	19.3
2434.85	16.4	-62	-61.3	0.7	2	6.6	19.1
2434.9	16.4	-62	-62.4	-0.4	2	4.6	18
2434.95	16.4	-62	-61.3	0.7	2	5.2	19.1

2435	16.4	-62	-61	1	2	6.9	19.4
2435.05	16.4	-62	-62.3	-0.3	2	4.9	18.1
2435.1	16.4	-62	-60.8	1.2	2	7.1	19.6
2435.15	16.4	-62	-61.6	0.4	2	5.8	18.8
2435.2	16.4	-62	-61.7	0.3	2	5.7	18.7
2435.25	16.4	-62	-60.8	1.2	2	3.7	19.6
2435.3	16.4	-62	-61	1	2	4.1	19.4
2435.35	16.4	-62	-61.3	0.7	2	7.8	19.1
2435.4	16.4	-62	-62.4	-0.4	2	5.4	18
2435.45	16.4	-62	-61.4	0.6	2	4.9	19
2435.5	16.4	-62	-62	0	2	7.2	18.4
2435.55	16.4	-62	-62.4	-0.4	2	5.3	18
2435.6	16.4	-62	-63.5	-1.5	2	5.8	16.9
2435.65	16.4	-62	-62.3	-0.3	2	5.4	18.1
2435.7	16.4	-62	-63.8	-1.8	2	4.6	16.6
2435.75	16.4	-62	-63.3	-1.3	2	7.1	17.1
2435.8	16.4	-62	-63.1	-1.1	2	7.4	17.3
2435.85	16.4	-62	-62.8	-0.8	2	6.3	17.6
2435.9	16.4	-62	-63.7	-1.7	2	5.6	16.7
2435.95	16.4	-62	-63.7	-1.7	2	6.6	16.7
2436	16.4	-62	-63.6	-1.6	2	4.3	16.8
2436.05	16.4	-62	-64.1	-2.1	2	5.2	16.3
2436.1	16.4	-62	-62.8	-0.8	2	5	17.6
2436.15	16.4	-62	-63.4	-1.4	2	6.3	17
2436.2	16.4	-62	-62.9	-0.9	2	5.1	17.5
2436.25	16.4	-62	-63.5	-1.5	2	7.8	16.9
2436.3	16.4	-62	-63.8	-1.8	2	5.2	16.6
2436.35	16.4	-62	-63.4	-1.4	2	5.2	17
2436.4	16.4	-62	-65.2	-3.2	2	4.4	15.2
2436.45	16.4	-62	-64.1	-2.1	2	6.9	16.3
2436.5	16.4	-62	-64	-2	2	6.9	16.4
2436.55	16.4	-62	-64.7	-2.7	2	7.1	15.7
2436.6	16.4	-62	-65.3	-3.3	2	4.5	15.1
2436.65	16.4	-62	-65	-3	2	7.5	15.4
2436.7	16.4	-62	-65.1	-3.1	2	7.2	15.3
2436.75	16.4	-62	-63.9	-1.9	2	7.6	16.5

2436.8	16.4	-62	-65.9	-3.9	2	4.7	14.5
2436.85	16.4	-62	-65.2	-3.2	2	6	15.2
2436.9	16.4	-62	-64.1	-2.1	2	3.8	16.3
2436.95	16.4	-62	-66.1	-4.1	2	7.1	14.3
2437	16.4	-62	-65.5	-3.5	2	7.2	14.9
2437.05	16.4	-62	-66.2	-4.2	2	4.7	14.2
2437.1	16.4	-62	-65.9	-3.9	2	6.6	14.5
2437.15	16.4	-62	-66.1	-4.1	2	6.3	14.3
2437.2	16.4	-62	-64.7	-2.7	2	7.1	15.7
2437.25	16.4	-62	-65	-3	2	6.6	15.4
2437.3	16.4	-62	-66.3	-4.3	2	3.6	14.1
2437.35	16.4	-62	-66.1	-4.1	2	4.7	14.3
2437.4	16.4	-62	-65.9	-3.9	2	5.2	14.5
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2437.5	16.4	-62	-67	-5	2	4.2	13.4
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2438.1	16.4	-62	-66.7	-4.7	2	5.4	13.7
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2439.85	16.4	-62	-69.4	-7.4	2	7.1	11
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2440.85	16.4	-62	-68.7	-6.7	2	6.2	11.7
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2441.2	16.4	-62	-68.5	-6.5	2	5	11.9
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2441.5	16.4	-62	-68.5	-6.5	2	6.4	11.9
2441.55	16.4	-62	-67.7	-5.7	2	5.3	12.7
2441.6	16.4	-62	-68.8	-6.8	2	4.2	11.6
2441.65	16.4	-62	-68.1	-6.1	2	5.9	12.3
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2441.8	16.4	-62	-67.9	-5.9	2	7.1	12.5
2441.85	16.4	-62	-69.7	-7.7	2	6.8	10.7
2441.9	16.4	-62	-68.3	-6.3	2	5.8	12.1
2441.95	16.4	-62	-70	-8	2	6	10.4
2442	16.4	-62	-69.2	-7.2	2	6.5	11.2
2442.05	16.4	-62	-69.8	-7.8	2	7.3	10.6
2442.1	16.4	-62	-68.6	-6.6	2	4.6	11.8
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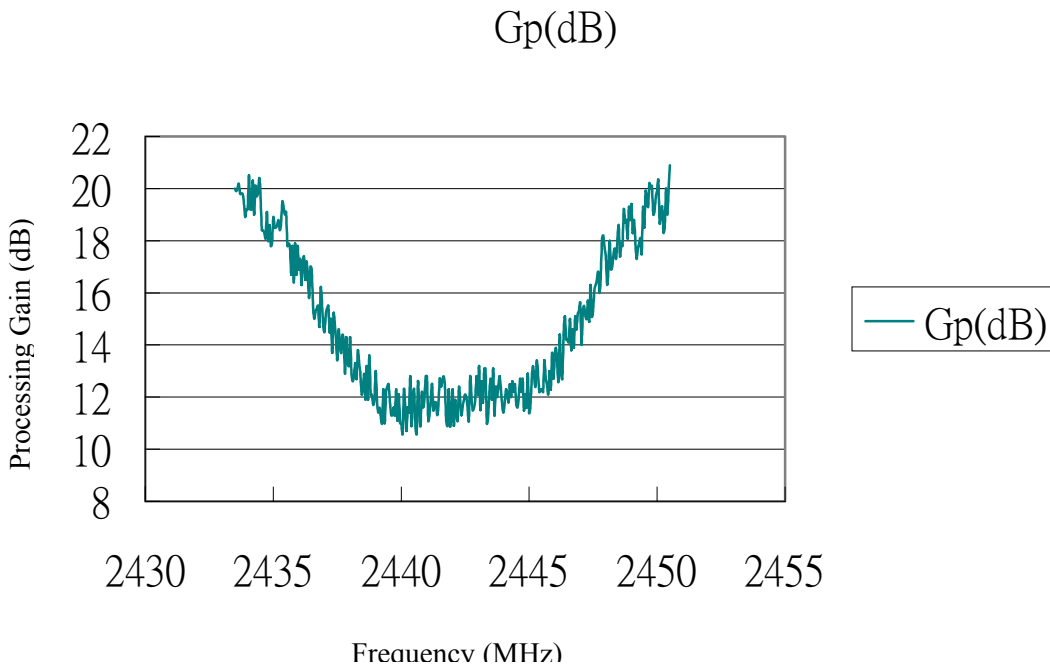
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2442.3	16.4	-62	-67.4	-5.4	2	4.9	13
2442.35	16.4	-62	-68.8	-6.8	2	4	11.6
2442.4	16.4	-62	-68.3	-6.3	2	4.3	12.1
2442.45	16.4	-62	-69.1	-7.1	2	4.4	11.3
2442.5	16.4	-62	-68.7	-6.7	2	5.9	11.7
2442.55	16.4	-62	-68.2	-6.2	2	7.1	12.2
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2442.65	16.4	-62	-68.9	-6.9	2	7.7	11.5
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2442.75	16.4	-62	-67.8	-5.8	2	7.4	12.6
2442.8	16.4	-62	-67.5	-5.5	2	5.7	12.9
2442.85	16.4	-62	-68	-6	2	6.2	12.4
2442.9	16.4	-62	-67.2	-5.2	2	5.3	13.2
2442.95	16.4	-62	-69.1	-7.1	2	5	11.3
2443	16.4	-62	-68.7	-6.7	2	5.4	11.7
2443.05	16.4	-62	-67.1	-5.1	2	4	13.3
2443.1	16.4	-62	-67.2	-5.2	2	6.9	13.2
2443.15	16.4	-62	-68.6	-6.6	2	5	11.8
2443.2	16.4	-62	-68.7	-6.7	2	5.3	11.7
2443.25	16.4	-62	-68.1	-6.1	2	5.8	12.3
2443.3	16.4	-62	-68.3	-6.3	2	7.9	12.1
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2443.4	16.4	-62	-69	-7	2	5.9	11.4
2443.45	16.4	-62	-67.7	-5.7	2	6.7	12.7
2443.5	16.4	-62	-67.8	-5.8	2	7.4	12.6
2443.55	16.4	-62	-69	-7	2	5.2	11.4
2443.6	16.4	-62	-69.1	-7.1	2	6.5	11.3
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2443.9	16.4	-62	-68.1	-6.1	2	4.4	12.3
2443.95	16.4	-62	-68.9	-6.9	2	6.9	11.5

2444	16.4	-62	-68.2	-6.2	2	5.3	12.2
2444.05	16.4	-62	-69.3	-7.3	2	6	11.1
2444.1	16.4	-62	-69.4	-7.4	2	4.7	11
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2444.65	16.4	-62	-67.7	-5.7	2	4.4	12.7
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2444.75	16.4	-62	-69	-7	2	6.1	11.4
2444.8	16.4	-62	-68	-6	2	6.9	12.4
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2444.9	16.4	-62	-68.3	-6.3	2	5.6	12.1
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2445.8	16.4	-62	-67	-5	2	4.2	13.4
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2449.55	16.4	-62	-61.7	0.3	2	7	18.7

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2449.9	16.4	-62	-60.9	1.1	2	6.5	19.5
2449.95	16.4	-62	-61.5	0.5	2	5.1	18.9
2450	16.4	-62	-59.7	2.3	2	5.8	20.7
2450.05	16.4	-62	-60.9	1.1	2	4.5	19.5
2450.1	16.4	-62	-61	1	2	6	19.4
2450.15	16.4	-62	-61.3	0.7	2	3.6	19.1
2450.2	16.4	-62	-61.3	0.7	2	4.3	19.1
2450.25	16.4	-62	-60.1	1.9	2	5.1	20.3
2450.3	16.4	-62	-60.3	1.7	2	7.4	20.1
2450.35	16.4	-62	-60.1	1.9	2	6.1	20.3
2450.4	16.4	-62	-61.5	0.5	2	6	18.9
2450.45	16.4	-62	-60.1	1.9	2	4.4	20.3
2450.5	16.4	-62	-60.4	1.6	2	4.5	20
Processing Gain(dB)@20th Percentile=12							



11Mbps Channel 11 (2462MHz) Processing Gain							
Gp=(S/N)o+Lsys+(Jr/Sr)							
Frequency	(S/N)o	Sr	Jr	Jr/Sr	Lsys	FER	Gp
(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2453.5	16.4	-62	-60.6	1.4	2	7.1	19.8
2453.55	16.4	-62	-60.4	1.6	2	7.1	20
2453.6	16.4	-62	-61.9	0.1	2	5.2	18.5
2453.65	16.4	-62	-62.2	-0.2	2	6.7	18.2
2453.7	16.4	-62	-61.4	0.6	2	5.5	19
2453.75	16.4	-62	-61.6	0.4	2	3.9	18.8
2453.8	16.4	-62	-62.8	-0.8	2	6.9	17.6
2453.85	16.4	-62	-62.4	-0.4	2	5.3	18
2453.9	16.4	-62	-60.9	1.1	2	6.9	19.5
2453.95	16.4	-62	-61.2	0.8	2	6.2	19.2
2454	16.4	-62	-60.8	1.2	2	6.8	19.6
2454.05	16.4	-62	-61.5	0.5	2	5.4	18.9
2454.1	16.4	-62	-61.3	0.7	2	5.2	19.1
2454.15	16.4	-62	-62	0	2	6.9	18.4
2454.2	16.4	-62	-60.4	1.6	2	5.9	20
2454.25	16.4	-62	-61.9	0.1	2	5.7	18.5
2454.3	16.4	-62	-62.4	-0.4	2	4.5	18
2454.35	16.4	-62	-61.1	0.9	2	7.4	19.3
2454.4	16.4	-62	-61.4	0.6	2	5.6	19
2454.45	16.4	-62	-60.8	1.2	2	6.2	19.6
2454.5	16.4	-62	-61.4	0.6	2	6.7	19
2454.55	16.4	-62	-62.2	-0.2	2	5.1	18.2
2454.6	16.4	-62	-62	0	2	5.5	18.4
2454.65	16.4	-62	-62	0	2	6.5	18.4
2454.7	16.4	-62	-62.2	-0.2	2	5.1	18.2
2454.75	16.4	-62	-63.1	-1.1	2	5.6	17.3
2454.8	16.4	-62	-63.2	-1.2	2	5.8	17.2
2454.85	16.4	-62	-61.6	0.4	2	5.1	18.8
2454.9	16.4	-62	-63.1	-1.1	2	4.1	17.3
2454.95	16.4	-62	-61.4	0.6	2	6.8	19
2455	16.4	-62	-62.5	-0.5	2	6.6	17.9

2455.05	16.4	-62	-62.6	-0.6	2	5.4	17.8
2455.1	16.4	-62	-61.3	0.7	2	5.9	19.1
2455.15	16.4	-62	-62	0	2	4.7	18.4
2455.2	16.4	-62	-63.1	-1.1	2	5.9	17.3
2455.25	16.4	-62	-61.5	0.5	2	6	18.9
2455.3	16.4	-62	-62.3	-0.3	2	5.6	18.1
2455.35	16.4	-62	-62.8	-0.8	2	6.2	17.6
2455.4	16.4	-62	-62.7	-0.7	2	7.2	17.7
2455.45	16.4	-62	-61.7	0.3	2	4.2	18.7
2455.5	16.4	-62	-61.7	0.3	2	6.4	18.7
2455.55	16.4	-62	-64.1	-2.1	2	5.7	16.3
2455.6	16.4	-62	-64.2	-2.2	2	5.1	16.2
2455.65	16.4	-62	-63	-1	2	6.2	17.4
2455.7	16.4	-62	-64	-2	2	5.8	16.4
2455.75	16.4	-62	-63.7	-1.7	2	5.3	16.7
2455.8	16.4	-62	-64	-2	2	4.5	16.4
2455.85	16.4	-62	-63.2	-1.2	2	4.1	17.2
2455.9	16.4	-62	-64.4	-2.4	2	4.2	16
2455.95	16.4	-62	-64.1	-2.1	2	7.2	16.3
2456	16.4	-62	-63.9	-1.9	2	6	16.5
2456.05	16.4	-62	-64.5	-2.5	2	4.7	15.9
2456.1	16.4	-62	-63.3	-1.3	2	5.8	17.1
2456.15	16.4	-62	-63.1	-1.1	2	4.2	17.3
2456.2	16.4	-62	-64.3	-2.3	2	4.1	16.1
2456.25	16.4	-62	-64.7	-2.7	2	7	15.7
2456.3	16.4	-62	-64.1	-2.1	2	6.5	16.3
2456.35	16.4	-62	-65.5	-3.5	2	3.7	14.9
2456.4	16.4	-62	-65.2	-3.2	2	5.4	15.2
2456.45	16.4	-62	-65.2	-3.2	2	5.4	15.2
2456.5	16.4	-62	-64.3	-2.3	2	5.9	16.1
2456.55	16.4	-62	-64.3	-2.3	2	4.8	16.1
2456.6	16.4	-62	-64.6	-2.6	2	6.4	15.8
2456.65	16.4	-62	-65	-3	2	6.7	15.4
2456.7	16.4	-62	-65.8	-3.8	2	6	14.6
2456.75	16.4	-62	-65.6	-3.6	2	5.8	14.8
2456.8	16.4	-62	-65.1	-3.1	2	6.2	15.3
2456.85	16.4	-62	-66.4	-4.4	2	5.6	14
2456.9	16.4	-62	-66.2	-4.2	2	7.3	14.2

2456.95	16.4	-62	-66.6	-4.6	2	5.2	13.8
2457	16.4	-62	-64.8	-2.8	2	3.9	15.6
2457.05	16.4	-62	-65.7	-3.7	2	6.6	14.7
2457.1	16.4	-62	-66.2	-4.2	2	6.7	14.2
2457.15	16.4	-62	-66.9	-4.9	2	4	13.5
2457.2	16.4	-62	-66.1	-4.1	2	6	14.3
2457.25	16.4	-62	-66.4	-4.4	2	5	14
2457.3	16.4	-62	-67.4	-5.4	2	6.2	13
2457.35	16.4	-62	-66.8	-4.8	2	7.9	13.6
2457.4	16.4	-62	-67.3	-5.3	2	7	13.1
2457.45	16.4	-62	-67.2	-5.2	2	4.8	13.2
2457.5	16.4	-62	-66.8	-4.8	2	4.2	13.6
2457.55	16.4	-62	-66.6	-4.6	2	4.1	13.8
2457.6	16.4	-62	-67.3	-5.3	2	5.3	13.1
2457.65	16.4	-62	-67.5	-5.5	2	4.4	12.9
2457.7	16.4	-62	-66.3	-4.3	2	5.1	14.1
2457.75	16.4	-62	-66.9	-4.9	2	5.5	13.5
2457.8	16.4	-62	-66.4	-4.4	2	7.7	14
2457.85	16.4	-62	-67.7	-5.7	2	6.3	12.7
2457.9	16.4	-62	-67.8	-5.8	2	3.8	12.6
2457.95	16.4	-62	-66.4	-4.4	2	6	14
2458	16.4	-62	-67.6	-5.6	2	5.2	12.8
2458.05	16.4	-62	-67.4	-5.4	2	5.9	13
2458.1	16.4	-62	-68	-6	2	6.9	12.4
2458.15	16.4	-62	-67.5	-5.5	2	6.1	12.9
2458.2	16.4	-62	-67.1	-5.1	2	6.7	13.3
2458.25	16.4	-62	-67.8	-5.8	2	6.1	12.6
2458.3	16.4	-62	-66.8	-4.8	2	6.1	13.6
2458.35	16.4	-62	-67.2	-5.2	2	5	13.2
2458.4	16.4	-62	-66.8	-4.8	2	5.1	13.6
2458.45	16.4	-62	-67.2	-5.2	2	6.8	13.2
2458.5	16.4	-62	-68.8	-6.8	2	5.5	11.6
2458.55	16.4	-62	-67.5	-5.5	2	4.1	12.9
2458.6	16.4	-62	-68.3	-6.3	2	6.8	12.1
2458.65	16.4	-62	-68.8	-6.8	2	5.7	11.6
2458.7	16.4	-62	-67.2	-5.2	2	4.2	13.2
2458.75	16.4	-62	-68.3	-6.3	2	4.4	12.1
2458.8	16.4	-62	-67.9	-5.9	2	7.8	12.5

2458.85	16.4	-62	-68.1	-6.1	2	5.5	12.3
2458.9	16.4	-62	-67.2	-5.2	2	4.3	13.2
2458.95	16.4	-62	-68.6	-6.6	2	6.9	11.8
2459	16.4	-62	-68.6	-6.6	2	4.6	11.8
2459.05	16.4	-62	-67.5	-5.5	2	5.7	12.9
2459.1	16.4	-62	-67.6	-5.6	2	5.8	12.8
2459.15	16.4	-62	-69.3	-7.3	2	6.1	11.1
2459.2	16.4	-62	-69.2	-7.2	2	5.2	11.2
2459.25	16.4	-62	-69.4	-7.4	2	5.1	11
2459.3	16.4	-62	-68.5	-6.5	2	5.6	11.9
2459.35	16.4	-62	-68.4	-6.4	2	5.2	12
2459.4	16.4	-62	-69.6	-7.6	2	6.3	10.8
2459.45	16.4	-62	-67.8	-5.8	2	5.6	12.6
2459.5	16.4	-62	-69	-7	2	6.1	11.4
2459.55	16.4	-62	-68.5	-6.5	2	4.7	11.9
2459.6	16.4	-62	-68.5	-6.5	2	4.8	11.9
2459.65	16.4	-62	-69.4	-7.4	2	7.2	11
2459.7	16.4	-62	-69.2	-7.2	2	6	11.2
2459.75	16.4	-62	-69.6	-7.6	2	4.3	10.8
2459.8	16.4	-62	-68.2	-6.2	2	4.8	12.2
2459.85	16.4	-62	-69.9	-7.9	2	6.9	10.5
2459.9	16.4	-62	-69.7	-7.7	2	6.3	10.7
2459.95	16.4	-62	-68.8	-6.8	2	6.3	11.6
2460	16.4	-62	-69.7	-7.7	2	5	10.7
2460.05	16.4	-62	-69.9	-7.9	2	5.3	10.5
2460.1	16.4	-62	-68.6	-6.6	2	5.7	11.8
2460.15	16.4	-62	-68.8	-6.8	2	6.8	11.6
2460.2	16.4	-62	-68.7	-6.7	2	6.9	11.7
2460.25	16.4	-62	-69.1	-7.1	2	7.6	11.3
2460.3	16.4	-62	-68.6	-6.6	2	5.5	11.8
2460.35	16.4	-62	-68.9	-6.9	2	6.3	11.5
2460.4	16.4	-62	-68.7	-6.7	2	5.3	11.7
2460.45	16.4	-62	-68.4	-6.4	2	5.6	12
2460.5	16.4	-62	-68	-6	2	4.2	12.4
2460.55	16.4	-62	-69.4	-7.4	2	4.1	11
2460.6	16.4	-62	-68.6	-6.6	2	7	11.8
2460.65	16.4	-62	-68.6	-6.6	2	4.6	11.8
2460.7	16.4	-62	-68	-6	2	6.9	12.4

2460.75	16.4	-62	-68.3	-6.3	2	5.5	12.1
2460.8	16.4	-62	-67.9	-5.9	2	3.8	12.5
2460.85	16.4	-62	-68.4	-6.4	2	6.5	12
2460.9	16.4	-62	-69	-7	2	3.9	11.4
2460.95	16.4	-62	-67.6	-5.6	2	6.1	12.8
2461	16.4	-62	-67.8	-5.8	2	5.7	12.6
2461.05	16.4	-62	-67.8	-5.8	2	6.3	12.6
2461.1	16.4	-62	-68.9	-6.9	2	6.3	11.5
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2461.2	16.4	-62	-67.3	-5.3	2	6.5	13.1
2461.25	16.4	-62	-69.1	-7.1	2	6.5	11.3
2461.3	16.4	-62	-67.6	-5.6	2	7	12.8
2461.35	16.4	-62	-67.6	-5.6	2	6.6	12.8
2461.4	16.4	-62	-67.6	-5.6	2	4.9	12.8
2461.45	16.4	-62	-68.2	-6.2	2	5.4	12.2
2461.5	16.4	-62	-67.5	-5.5	2	4.5	12.9
2461.55	16.4	-62	-68.6	-6.6	2	4.5	11.8
2461.6	16.4	-62	-67.2	-5.2	2	4.2	13.2
2461.65	16.4	-62	-68.6	-6.6	2	6	11.8
2461.7	16.4	-62	-67.2	-5.2	2	7.1	13.2
2461.75	16.4	-62	-67.5	-5.5	2	5.4	12.9
2461.8	16.4	-62	-68.5	-6.5	2	6.5	11.9
2461.85	16.4	-62	-68	-6	2	4.6	12.4
2461.9	16.4	-62	-69	-7	2	6.2	11.4
2461.95	16.4	-62	-68.3	-6.3	2	5.6	12.1
2462	16.4	-62	-69.5	-7.5	2	4.6	10.9
2462.05	16.4	-62	-68.9	-6.9	2	5.6	11.5
2462.1	16.4	-62	-68	-6	2	6.8	12.4
2462.15	16.4	-62	-68.9	-6.9	2	6.6	11.5
2462.2	16.4	-62	-68	-6	2	5.9	12.4
2462.25	16.4	-62	-67.9	-5.9	2	5.9	12.5
2462.3	16.4	-62	-68.6	-6.6	2	7	11.8
2462.35	16.4	-62	-67.5	-5.5	2	6	12.9
2462.4	16.4	-62	-68.8	-6.8	2	7.7	11.6
2462.45	16.4	-62	-67.4	-5.4	2	4	13
2462.5	16.4	-62	-67.9	-5.9	2	5.2	12.5
2462.55	16.4	-62	-67.9	-5.9	2	5.6	12.5
2462.6	16.4	-62	-67.5	-5.5	2	7.1	12.9

2462.65	16.4	-62	-68.7	-6.7	2	6.7	11.7
2462.7	16.4	-62	-67.4	-5.4	2	6	13
2462.75	16.4	-62	-69	-7	2	7.3	11.4
2462.8	16.4	-62	-68.4	-6.4	2	5.8	12
2462.85	16.4	-62	-69.1	-7.1	2	4.6	11.3
2462.9	16.4	-62	-67.6	-5.6	2	7.2	12.8
2462.95	16.4	-62	-68.6	-6.6	2	7.5	11.8
2463	16.4	-62	-68	-6	2	7.2	12.4
2463.05	16.4	-62	-69.2	-7.2	2	6.3	11.2
2463.1	16.4	-62	-67.7	-5.7	2	5.2	12.7
2463.15	16.4	-62	-68.8	-6.8	2	7.1	11.6
2463.2	16.4	-62	-68.6	-6.6	2	4.2	11.8
2463.25	16.4	-62	-68.5	-6.5	2	5.9	11.9
2463.3	16.4	-62	-68.6	-6.6	2	6.4	11.8
2463.35	16.4	-62	-68.2	-6.2	2	6.7	12.2
2463.4	16.4	-62	-69.4	-7.4	2	7.1	11
2463.45	16.4	-62	-68.3	-6.3	2	5.8	12.1
2463.5	16.4	-62	-68.5	-6.5	2	6.4	11.9
2463.55	16.4	-62	-68.7	-6.7	2	7.5	11.7
2463.6	16.4	-62	-68.7	-6.7	2	5.5	11.7
2463.65	16.4	-62	-67.8	-5.8	2	5.5	12.6
2463.7	16.4	-62	-67.8	-5.8	2	5.5	12.6
2463.75	16.4	-62	-67.3	-5.3	2	5.7	13.1
2463.8	16.4	-62	-68.8	-6.8	2	4.6	11.6
2463.85	16.4	-62	-68	-6	2	5.4	12.4
2463.9	16.4	-62	-68.3	-6.3	2	4.7	12.1
2463.95	16.4	-62	-68.8	-6.8	2	4.3	11.6
2464	16.4	-62	-69.1	-7.1	2	4.6	11.3
2464.05	16.4	-62	-67.8	-5.8	2	4.9	12.6
2464.1	16.4	-62	-68.3	-6.3	2	6.4	12.1
2464.15	16.4	-62	-69.3	-7.3	2	5.9	11.1
2464.2	16.4	-62	-68.3	-6.3	2	7.5	12.1
2464.25	16.4	-62	-69	-7	2	6.4	11.4
2464.3	16.4	-62	-68.6	-6.6	2	5.9	11.8
2464.35	16.4	-62	-67.9	-5.9	2	5.1	12.5
2464.4	16.4	-62	-68	-6	2	4.4	12.4
2464.45	16.4	-62	-67.9	-5.9	2	5.9	12.5
2464.5	16.4	-62	-69	-7	2	5.9	11.4

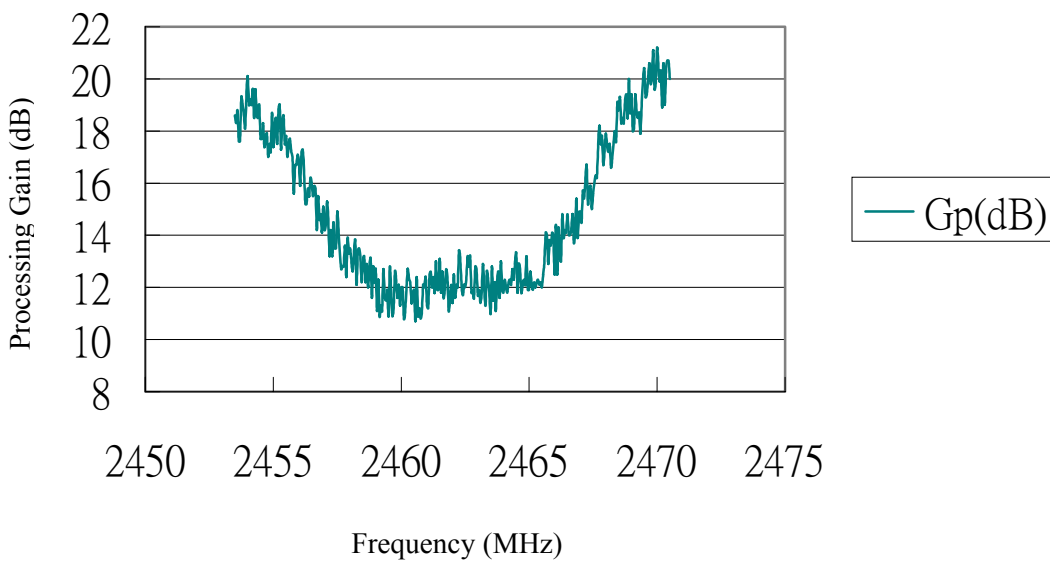
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2464.6	16.4	-62	-67.5	-5.5	2	7.8	12.9
2464.65	16.4	-62	-69.1	-7.1	2	6.6	11.3
2464.7	16.4	-62	-67.7	-5.7	2	4.8	12.7
2464.75	16.4	-62	-68.8	-6.8	2	4.3	11.6
2464.8	16.4	-62	-68.8	-6.8	2	4.9	11.6
2464.85	16.4	-62	-68.9	-6.9	2	4.1	11.5
2464.9	16.4	-62	-67.2	-5.2	2	4.4	13.2
2464.95	16.4	-62	-67	-5	2	5.8	13.4
2465	16.4	-62	-68	-6	2	6.2	12.4
2465.05	16.4	-62	-67.2	-5.2	2	4.5	13.2
2465.1	16.4	-62	-68	-6	2	6.2	12.4
2465.15	16.4	-62	-68.6	-6.6	2	4.2	11.8
2465.2	16.4	-62	-67.7	-5.7	2	6.2	12.7
2465.25	16.4	-62	-67	-5	2	7.1	13.4
2465.3	16.4	-62	-66.7	-4.7	2	4.4	13.7
2465.35	16.4	-62	-67.8	-5.8	2	5.8	12.6
2465.4	16.4	-62	-68.2	-6.2	2	5.5	12.2
2465.45	16.4	-62	-68.2	-6.2	2	5.4	12.2
2465.5	16.4	-62	-67.9	-5.9	2	5.2	12.5
2465.55	16.4	-62	-68.1	-6.1	2	5.6	12.3
2465.6	16.4	-62	-67.2	-5.2	2	4.9	13.2
2465.65	16.4	-62	-67.7	-5.7	2	6.1	12.7
2465.7	16.4	-62	-68.1	-6.1	2	6	12.3
2465.75	16.4	-62	-66.6	-4.6	2	6.7	13.8
2465.8	16.4	-62	-67.9	-5.9	2	6	12.5
2465.85	16.4	-62	-66.4	-4.4	2	5.9	14
2465.9	16.4	-62	-68	-6	2	6.1	12.4
2465.95	16.4	-62	-67.2	-5.2	2	6.8	13.2
2466	16.4	-62	-66.2	-4.2	2	6	14.2
2466.05	16.4	-62	-67.3	-5.3	2	5.4	13.1
2466.1	16.4	-62	-67.5	-5.5	2	4.3	12.9
2466.15	16.4	-62	-66.9	-4.9	2	4	13.5
2466.2	16.4	-62	-66.8	-4.8	2	4.4	13.6
2466.25	16.4	-62	-67.1	-5.1	2	7.2	13.3
2466.3	16.4	-62	-67.2	-5.2	2	3.9	13.2
2466.35	16.4	-62	-66.1	-4.1	2	6.5	14.3
2466.4	16.4	-62	-66.6	-4.6	2	7.4	13.8

2466.45	16.4	-62	-66.3	-4.3	2	6.6	14.1
2466.5	16.4	-62	-65.5	-3.5	2	5.5	14.9
2466.55	16.4	-62	-66.4	-4.4	2	6.2	14
2466.6	16.4	-62	-66.1	-4.1	2	7.1	14.3
2466.65	16.4	-62	-65.4	-3.4	2	5.8	15
2466.7	16.4	-62	-66.2	-4.2	2	6.2	14.2
2466.75	16.4	-62	-65.3	-3.3	2	7.4	15.1
2466.8	16.4	-62	-66.8	-4.8	2	6	13.6
2466.85	16.4	-62	-65.9	-3.9	2	4.2	14.5
2466.9	16.4	-62	-66.2	-4.2	2	4.2	14.2
2466.95	16.4	-62	-65.4	-3.4	2	6.3	15
2467	16.4	-62	-64.9	-2.9	2	6.1	15.5
2467.05	16.4	-62	-65.3	-3.3	2	4.2	15.1
2467.1	16.4	-62	-65.9	-3.9	2	7	14.5
2467.15	16.4	-62	-64.9	-2.9	2	7.7	15.5
2467.2	16.4	-62	-65.2	-3.2	2	7.1	15.2
2467.25	16.4	-62	-65.4	-3.4	2	6.1	15
2467.3	16.4	-62	-64.1	-2.1	2	7.1	16.3
2467.35	16.4	-62	-65.1	-3.1	2	4.4	15.3
2467.4	16.4	-62	-64	-2	2	4.2	16.4
2467.45	16.4	-62	-64.1	-2.1	2	6.2	16.3
2467.5	16.4	-62	-64.7	-2.7	2	7.1	15.7
2467.55	16.4	-62	-63.2	-1.2	2	3.8	17.2
2467.6	16.4	-62	-63.4	-1.4	2	5.6	17
2467.65	16.4	-62	-64.7	-2.7	2	4.6	15.7
2467.7	16.4	-62	-64	-2	2	4.6	16.4
2467.75	16.4	-62	-63.9	-1.9	2	4.5	16.5
2467.8	16.4	-62	-62.3	-0.3	2	4.7	18.1
2467.85	16.4	-62	-62.3	-0.3	2	5.4	18.1
2467.9	16.4	-62	-62	0	2	6.8	18.4
2467.95	16.4	-62	-63	-1	2	4.4	17.4
2468	16.4	-62	-62.5	-0.5	2	6.5	17.9
2468.05	16.4	-62	-62.6	-0.6	2	6.2	17.8
2468.1	16.4	-62	-62.5	-0.5	2	5.4	17.9
2468.15	16.4	-62	-63.9	-1.9	2	5.7	16.5
2468.2	16.4	-62	-62.7	-0.7	2	5.7	17.7
2468.25	16.4	-62	-62.9	-0.9	2	4	17.5
2468.3	16.4	-62	-61.9	0.1	2	7.1	18.5

2468.35	16.4	-62	-62	0	2	5.2	18.4
2468.4	16.4	-62	-61.6	0.4	2	7	18.8
2468.45	16.4	-62	-62.1	-0.1	2	5	18.3
2468.5	16.4	-62	-62	0	2	6.5	18.4
2468.55	16.4	-62	-61.6	0.4	2	4.1	18.8
2468.6	16.4	-62	-61.5	0.5	2	4.9	18.9
2468.65	16.4	-62	-60.5	1.5	2	6.4	19.9
2468.7	16.4	-62	-61.6	0.4	2	5.2	18.8
2468.75	16.4	-62	-61.3	0.7	2	4.1	19.1
2468.8	16.4	-62	-60.5	1.5	2	4.6	19.9
2468.85	16.4	-62	-61.7	0.3	2	7.2	18.7
2468.9	16.4	-62	-62.1	-0.1	2	4.7	18.3
2468.95	16.4	-62	-60.6	1.4	2	6	19.8
2469	16.4	-62	-60.6	1.4	2	5.6	19.8
2469.05	16.4	-62	-60.7	1.3	2	6	19.7
2469.1	16.4	-62	-62.4	-0.4	2	5.3	18
2469.15	16.4	-62	-60.9	1.1	2	5.4	19.5
2469.2	16.4	-62	-61.6	0.4	2	4.8	18.8
2469.25	16.4	-62	-62.1	-0.1	2	5	18.3
2469.3	16.4	-62	-60.8	1.2	2	7.2	19.6
2469.35	16.4	-62	-60.9	1.1	2	5.7	19.5
2469.4	16.4	-62	-61.4	0.6	2	4.5	19
2469.45	16.4	-62	-61.8	0.2	2	7.6	18.6
2469.5	16.4	-62	-61.6	0.4	2	4	18.8
2469.55	16.4	-62	-60.6	1.4	2	7.3	19.8
2469.6	16.4	-62	-60.6	1.4	2	4.4	19.8
2469.65	16.4	-62	-60.9	1.1	2	5.4	19.5
2469.7	16.4	-62	-60	2	2	6.6	20.4
2469.75	16.4	-62	-60.6	1.4	2	6.6	19.8
2469.8	16.4	-62	-60.1	1.9	2	4.9	20.3
2469.85	16.4	-62	-59.8	2.2	2	5.2	20.6
2469.9	16.4	-62	-60.7	1.3	2	6	19.7
2469.95	16.4	-62	-60.5	1.5	2	7.2	19.9
2470	16.4	-62	-60.8	1.2	2	4.4	19.6
2470.05	16.4	-62	-61.3	0.7	2	4.7	19.1
2470.1	16.4	-62	-59.7	2.3	2	4.7	20.7
2470.15	16.4	-62	-60.8	1.2	2	6.2	19.6
2470.2	16.4	-62	-60.4	1.6	2	6.8	20

2470.25	16.4	-62	-59.6	2.4	2	6.4	20.8
2470.3	16.4	-62	-60.6	1.4	2	4.4	19.8
2470.35	16.4	-62	-60.3	1.7	2	4	20.1
2470.4	16.4	-62	-60.8	1.2	2	7	19.6
2470.45	16.4	-62	-60.8	1.2	2	6.8	19.6
2470.5	16.4	-62	-58.9	3.1	2	6.6	21.5
Processing Gain(dB)@20th Percentile=12							

Gp(dB)



EMI Reduction Method During Compliance Testing

No modification was made during testing.