



Test Report

Product Name	ASUS MyPal A636N Pocket PC
Model No.	A636N
FCC ID	MSQA636N

Applicant	ASUSTeK COMPUTER INC.
Address	4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	Mar. 16, 2006
Issued Date	Apr. 12, 2006
Report No.	063L106-RF-US-P05V01

The test results relate only to the samples tested.

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

Test Report Certification

Issued Date: Apr. 12, 2006

Report No.: 063L106-RF-US-P05V01



Product Name	ASUS MyPal A636N Pocket PC
Applicant	ASUSTeK COMPUTER INC.
Address	4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	ASUSTeK COMPUTER INC.
Model No.	A636N
Rated Voltage	AC 120V/60Hz
Working Voltage	DC 3.3V (Powered by Pocket PC)
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2005 CISPR 22 Edition 4.1: 2004 ANSI C63.4: 2003
Test Result	Complied



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Documented By : Anita Chou
(Anita Chou)



0914

Tested By : Tom Hsieh
(Tom Hsieh)

Approved By : Gene Chang
(Gene Chang)



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	ASUS MyPal A636N Pocket PC
Trade Name	ASUS
Model No.	A636N
FCC ID	MSQA636N
Frequency Range	2412 – 2462MHz
Channel Number	11
Data Speed	IEEE 802.11b – 1, 2, 5.5, 11Mbps IEEE 802.11g – 6, 9, 12, 18, 24, 36 48, 54Mbps
Type of Modulation	DSSS/ OFDM
Antenna type	Connector
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
Power Adapter	Delta, EADP-10BB REV.B Cable Out: Non-shielded, 1.8m

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	ASUS	WiFi Antenna	0.5 dBi for 2.4 GHz

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. The EUT is a ASUS MyPal A636N Pocket PC including a 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 11Mbps and 802.11g is 54Mbps)
4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices
5. The receiver is tested and a test report is produced with report number 063L043, which is certified under Declaration of Conformity.
6. Co-transmission of BT and 11bg transmitters is tested and complied with Part 15.247.

1.2. Operational Description

The EUT is a ASUS MyPal A636N Pocket PC with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps. The device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b) or eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps. The device of RF carrier is OFDM (IEEE 802.11g).

The device adapts direct sequence spread spectrum modulation. The antenna was Connector provides diversity function to improve the receiving function.

This ASUS MyPal A636N Pocket PC, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN 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 ASUS MyPal A636N Pocket PC Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

Test Mode	Mode 1: Transmitter 802.11b
	Mode 2: Transmitter 802.11g

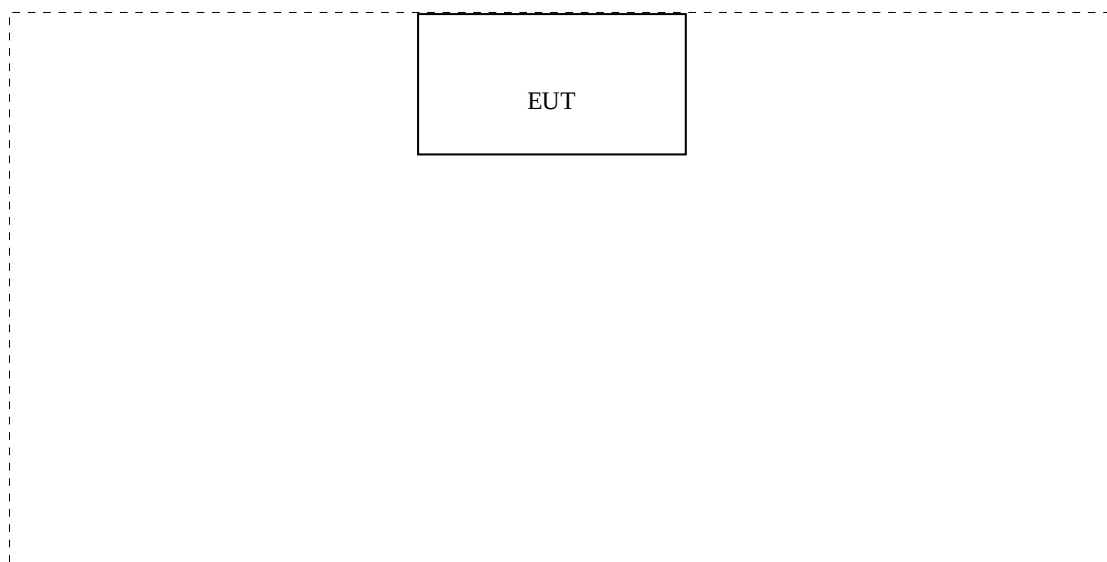
1.3. Tested System Details

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.	FCC ID	Power Cord
1.	N/A	N/A	N/A	N/A	N/A	N/A

	Signal Cable Type	Signal cable Description
A.	N/A	N/A

1.4. Configuration of Test System



1.5. EUT Exercise Software

- (1) Setup the EUT and simulators as shown on 1.4
- (2) Turn on the power of all equipment.
- (3) Notebook PC reads data from disk.
- (4) Data will be transmitting and receiving through EUT.
- (5) The transmitted and receive status will be shown on the monitor.
- (6) Repeat the above procedure (4) to (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: June 22, 2001 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



July 03, 2001 Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation



Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com



2. Conducted Emission

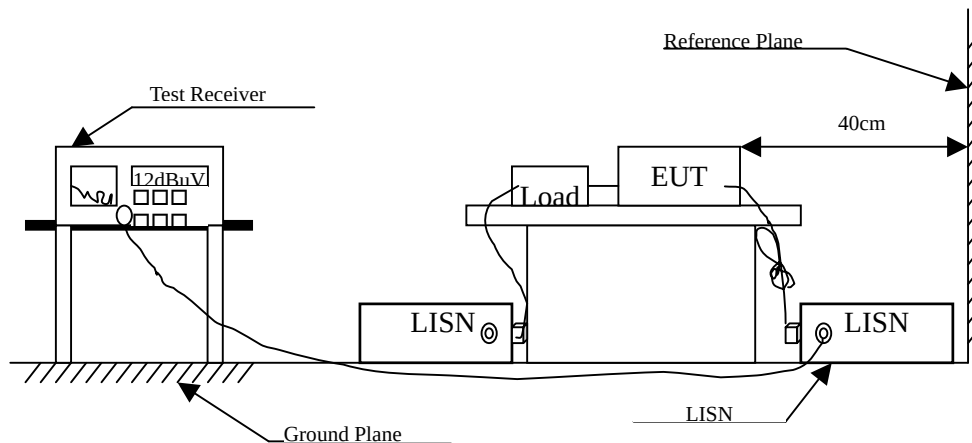
2.1. Test Equipment

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

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	EMI Test Receiver	R&S	ESCS 30/100367	Aug, 2005	
2	LISN	R&S	ESH3-Z5/836679/023	July, 2005	EUT
3	LISN	R&S	ESH3-Z5/836679/017	Feb, 2006	Peripherals
4	Pulse Limiter	R&S	ESH3-Z2/357.8810.52	Sep, 2005	
5	No.7 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	uV	dBuV
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

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 refers 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: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB

2.6. Test Result of Conducted Emission

Product : ASUS MyPal A636N Pocket PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.248	0.350	41.100	41.450	-21.750	63.200
0.375	0.300	29.120	29.420	-30.151	59.571
0.493	0.300	32.930	33.230	-22.970	56.200
0.675	0.310	36.860	37.170	-18.830	56.000
0.800	0.310	32.300	32.610	-23.390	56.000
1.040	0.320	30.560	30.880	-25.120	56.000
Average					
0.248	0.350	33.630	33.980	-19.220	53.200
0.375	0.300	22.980	23.280	-26.291	49.571
0.493	0.300	27.300	27.600	-18.600	46.200
0.675	0.310	24.870	25.180	-20.820	46.000
0.800	0.310	23.650	23.960	-22.040	46.000
1.040	0.320	21.010	21.330	-24.670	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS MyPal A636N Pocket PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.248	0.300	39.420	39.720	-23.480	63.200
0.373	0.310	29.120	29.430	-30.199	59.629
0.488	0.310	27.240	27.550	-28.793	56.343
0.815	0.320	36.060	36.380	-19.620	56.000
0.990	0.320	35.820	36.140	-19.860	56.000
1.600	0.340	26.900	27.240	-28.760	56.000
Average					
0.248	0.300	30.020	30.320	-22.880	53.200
0.373	0.310	21.140	21.450	-28.179	49.629
0.488	0.310	16.230	16.540	-29.803	46.343
0.815	0.320	26.000	26.320	-19.680	46.000
0.990	0.320	27.990	28.310	-17.690	46.000
1.600	0.340	20.660	21.000	-25.000	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS MyPal A636N Pocket PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.151	0.316	37.000	37.316	-28.655	65.971
0.245	0.357	39.700	40.057	-23.228	63.286
0.368	0.300	29.440	29.740	-30.031	59.771
0.720	0.310	42.460	42.770	-13.230	56.000
0.915	0.310	41.360	41.670	-14.330	56.000
0.988	0.311	35.220	35.531	-20.469	56.000
Average					
0.151	0.316	15.390	15.706	-40.265	55.971
0.245	0.357	26.950	27.307	-25.978	53.286
0.368	0.300	16.490	16.790	-32.981	49.771
0.720	0.310	31.300	31.610	-14.390	46.000
0.915	0.310	31.280	31.590	-14.410	46.000
0.988	0.311	26.450	26.761	-19.239	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS MyPal A636N Pocket PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmitter 802.11g (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.252	0.300	41.890	42.190	-20.896	63.086
0.377	0.310	29.320	29.630	-29.884	59.514
0.502	0.310	33.770	34.080	-21.920	56.000
0.627	0.310	34.460	34.770	-21.230	56.000
0.767	0.320	36.240	36.560	-19.440	56.000
0.912	0.320	38.030	38.350	-17.650	56.000
Average					
0.252	0.300	33.130	33.430	-19.656	53.086
0.377	0.310	22.360	22.670	-26.844	49.514
0.502	0.310	28.590	28.900	-17.100	46.000
0.627	0.310	28.200	28.510	-17.490	46.000
0.767	0.320	26.210	26.530	-19.470	46.000
0.912	0.320	27.890	28.210	-17.790	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

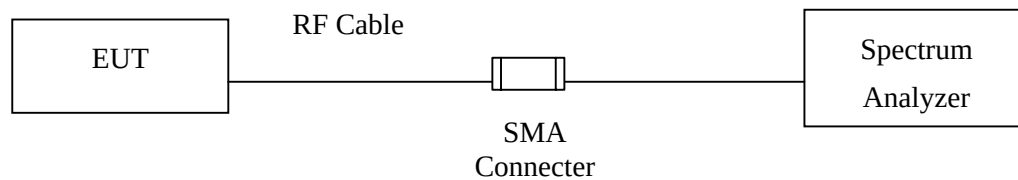
The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

3.2. Test Setup

Conduction Power Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Uncertainty

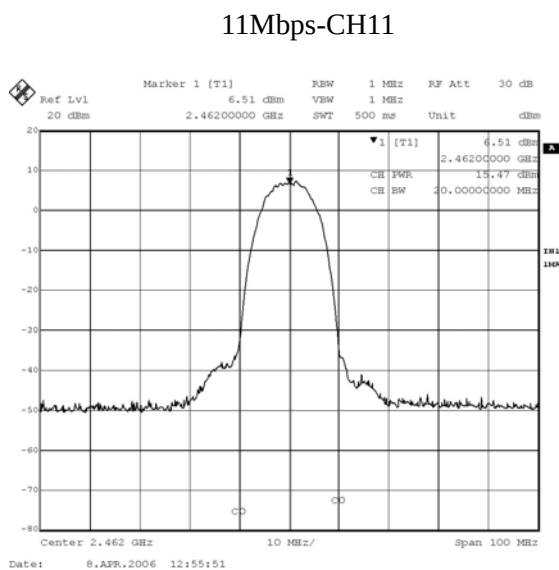
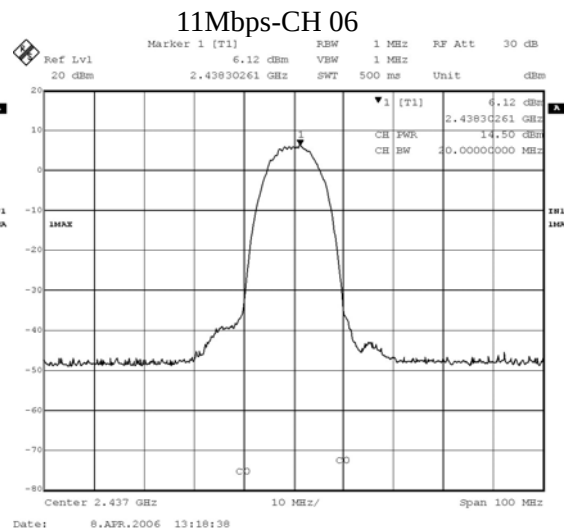
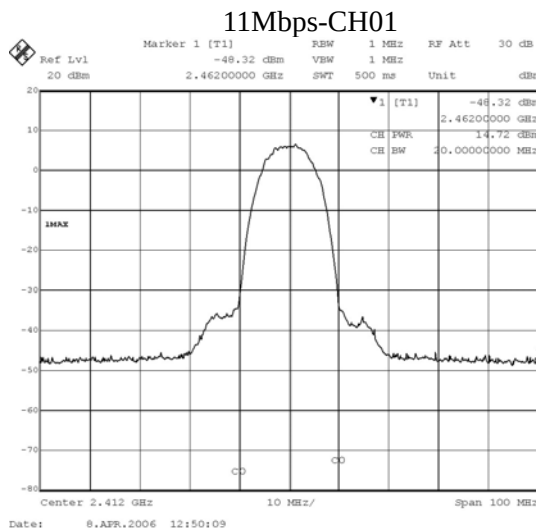
The measurement uncertainty is defined as ± 1.27 dB

3.5. Test Result of Peak Power Output

Product : ASUS MyPal A636N Pocket PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

Data Speed: 11Mbps

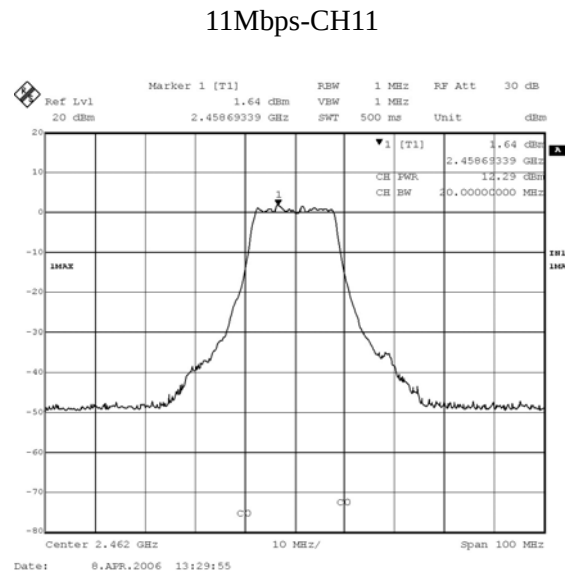
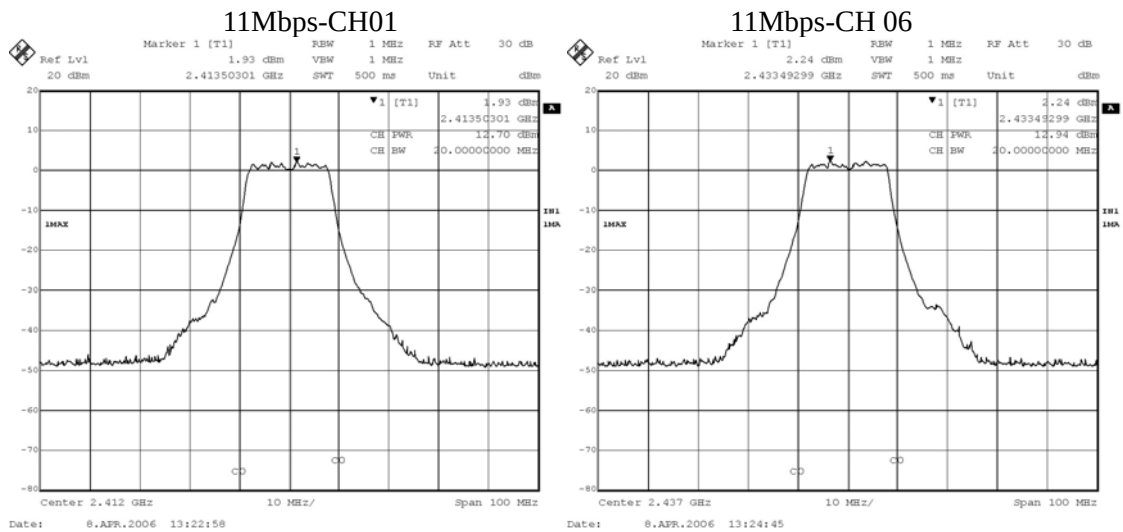
Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	14.72dBm	1Watt= 30 dBm	Pass
6	2437.00	14.50dBm	1Watt= 30 dBm	Pass
11	2462.00	15.47dBm	1Watt= 30 dBm	Pass



Product : ASUS MyPal A636N Pocket PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g

Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	12.70dBm	1Watt= 30 dBm	Pass
6	2437.00	12.94dBm	1Watt= 30 dBm	Pass
11	2462.00	12.29dBm	1Watt= 30 dBm	Pass



4. Radiated Emission

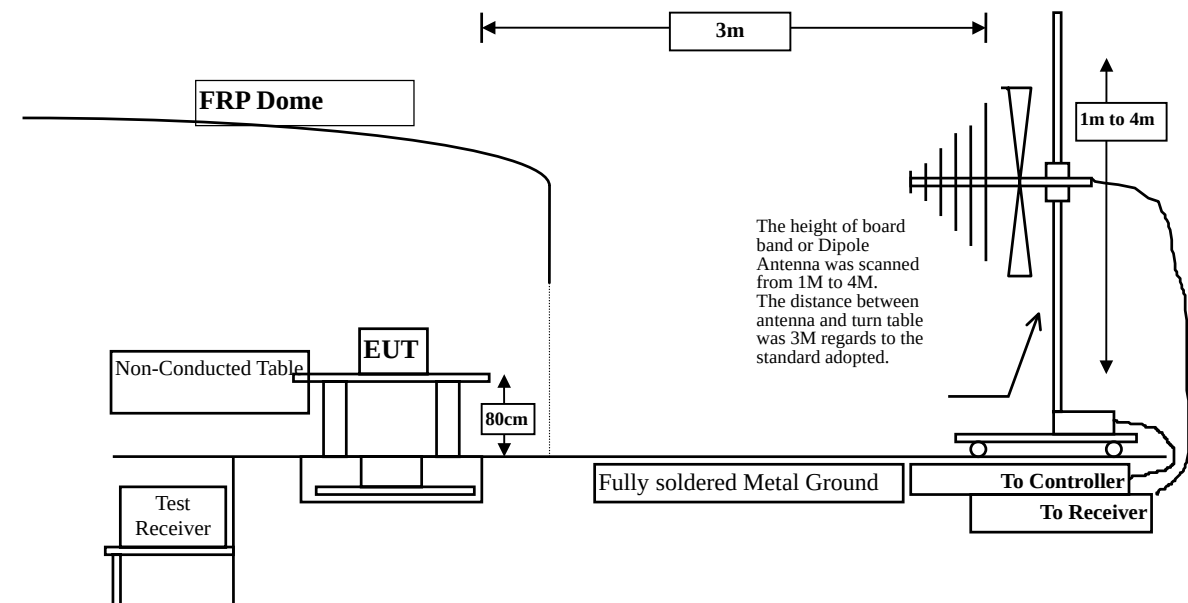
4.1. Test Equipment

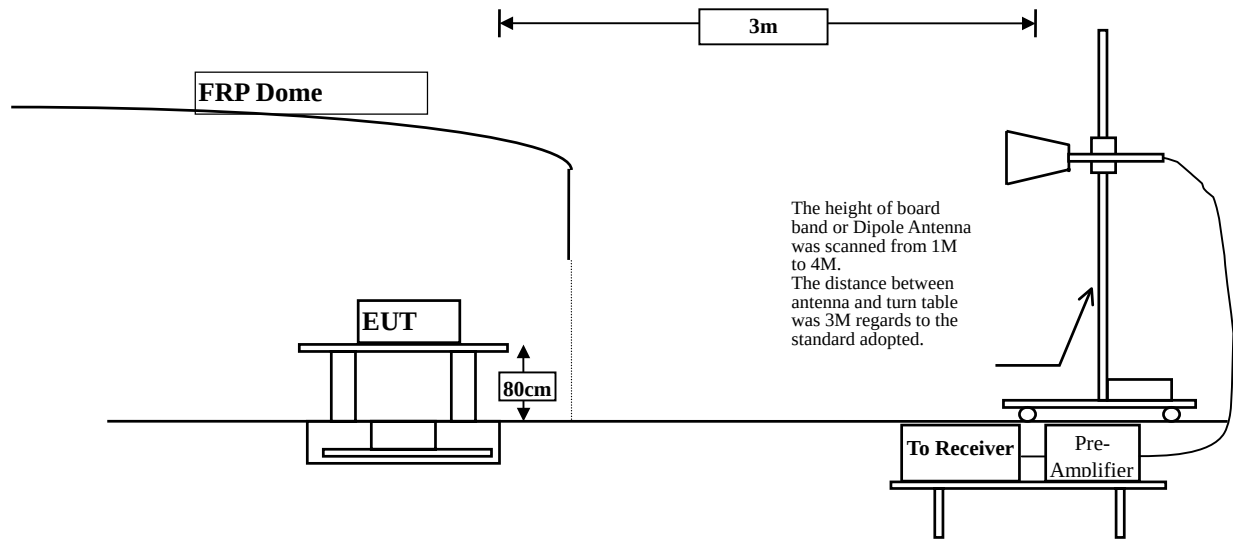
The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
	Pre-Amplifier	HP	8447D/3307A01812	May, 2005
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
	Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2005
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2005
	Pre-Amplifier	HP	8447D/3307A01814	May, 2005
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
	Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005
	X Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2005
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2005
	X Horn Antenna	ETS	3115 / 0005-6160	July, 2005
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2005

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup





4.3. 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.

4.4. 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: 2003 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.

4.5. Uncertainty

The measurement uncertainty is defined as ± 3.8 dB above 1GHz as ± 3.9 dB

4.6. Test Result of Radiated Emission

Product : ASUS MyPal A636N Pocket PC
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.250	4.391	45.592	49.983	-23.987	74.00
7236.250	11.803	38.495	50.298	-23.672	74.00
9648.250	15.809	37.682	53.491	-20.479	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.250	4.391	44.745	49.136	-24.834	74.00
7236.250	11.803	37.756	49.559	-24.411	74.00
9648.250	15.809	37.192	53.001	-20.969	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS MyPal A636N Pocket PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.250	4.540	44.591	49.131	-24.839	74.00
7311.250	12.382	38.388	50.769	-23.201	74.00
9748.250	15.095	37.875	52.971	-20.999	74.00

Average Detector:

--

Vertical

Peak Detector:

4874.250	4.540	45.940	50.480	-23.490	74.00
7311.250	12.382	38.636	51.017	-22.953	74.00
9748.250	15.095	37.770	52.866	-21.104	74.00

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS MyPal A636N Pocket PC
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4924.250	4.693	44.597	49.290	-24.680	74.00
7386.250	12.712	38.539	51.251	-22.719	74.00
9848.250	14.262	38.499	52.761	-21.209	74.00

Average Detector:

--

Vertical

Peak Detector:

4924.250	4.693	46.126	50.819	-23.151	74.00
7386.250	12.712	38.306	51.018	-22.952	74.00
9848.250	14.262	37.955	52.217	-21.753	74.00

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS MyPal A636N Pocket PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.250	4.391	38.385	42.776	-31.194	74.00
7236.250	11.803	38.114	49.917	-24.053	74.00
9648.250	15.809	37.202	53.011	-20.959	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.250	4.391	39.687	44.078	-29.892	74.00
7236.250	11.803	38.515	50.318	-23.652	74.00
9648.250	15.809	37.931	53.740	-20.230	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS MyPal A636N Pocket PC
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : **Mode 2:** Transmitter 802.11g (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.250	4.540	39.736	44.276	-29.694	74.00
7311.250	12.382	38.290	50.671	-23.299	74.00
9748.250	15.095	37.038	52.134	-21.836	74.00

Average Detector:

--

Vertical

Peak Detector:

4874.250	4.540	40.681	45.221	-28.749	74.00
7311.250	12.382	38.081	50.462	-23.508	74.00
9748.250	15.095	37.291	52.387	-21.583	74.00

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS MyPal A636N Pocket PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4924.250	4.693	39.864	44.557	-29.413	74.00
7386.250	12.712	39.416	52.128	-21.842	74.00
9848.250	14.262	37.722	51.984	-21.986	74.00

Average Detector:

--

Vertical

Peak Detector:

4924.250	4.693	40.139	44.832	-29.138	74.00
7386.250	12.712	37.224	49.936	-24.034	74.00
9848.250	14.262	37.711	51.973	-21.997	74.00

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS MyPal A636N Pocket PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
199.700	9.709	17.200	26.908	-16.592	43.500
211.800	9.497	15.289	24.786	-18.714	43.500
396.100	16.268	14.400	30.668	-15.332	46.000
573.200	19.428	18.100	37.528	-8.472	46.000
604.100	20.204	9.800	30.004	-15.996	46.000
619.200	21.049	8.900	29.949	-16.051	46.000
Vertical					
185.200	9.391	17.200	26.591	-16.909	43.500
357.300	15.921	15.100	31.021	-14.979	46.000
410.600	19.374	14.200	33.574	-12.426	46.000
434.900	19.151	14.400	33.552	-12.448	46.000
619.200	21.591	8.800	30.391	-15.609	46.000
689.600	20.441	8.400	28.841	-17.159	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “■” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : ASUS MyPal A636N Pocket PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
192.400	9.304	19.300	28.604	-14.896	43.500
204.600	9.806	17.200	27.006	-16.494	43.500
291.800	13.751	11.800	25.551	-20.449	46.000
306.100	13.845	12.400	26.245	-19.755	46.000
369.500	15.723	5.500	21.223	-24.777	46.000
597.400	19.920	9.100	29.021	-16.979	46.000
Vertical					
177.600	9.681	16.500	26.181	-17.319	43.500
211.800	10.287	16.600	26.887	-16.613	43.500
344.100	14.620	14.600	29.220	-16.780	46.000
371.800	16.659	14.530	31.188	-14.812	46.000
410.600	19.374	14.200	33.574	-12.426	46.000
604.500	21.808	9.540	31.348	-14.652	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "■" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : ASUS MyPal A636N Pocket PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
180.400	9.537	17.700	27.237	-16.263	43.500
199.700	9.709	17.200	26.908	-16.592	43.500
204.500	9.822	17.100	26.922	-16.578	43.500
219.500	9.867	13.100	22.967	-23.033	46.000
369.500	15.723	15.500	31.223	-14.777	46.000
580.500	20.045	8.200	28.245	-17.755	46.000
Vertical					
178.900	9.598	16.600	26.197	-17.303	43.500
384.100	16.837	15.500	32.337	-13.663	46.000
545.100	20.655	9.200	29.855	-16.145	46.000
604.700	21.811	9.400	31.211	-14.789	46.000
619.200	21.591	8.890	30.481	-15.519	46.000
690.100	20.400	8.400	28.800	-17.200	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “■” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : ASUS MyPal A636N Pocket PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
211.500	9.608	15.200	24.808	-18.692	43.500
224.100	10.286	13.150	23.435	-22.565	46.000
291.900	13.751	11.800	25.551	-20.449	46.000
369.500	15.723	15.500	31.223	-14.777	46.000
544.100	19.945	9.850	29.795	-16.205	46.000
597.500	19.917	9.100	29.017	-16.983	46.000
Vertical					
185.200	9.391	17.200	26.591	-16.909	43.500
192.500	9.382	18.200	27.582	-15.918	43.500
204.500	9.883	16.200	26.083	-17.417	43.500
216.600	10.677	13.500	24.177	-21.823	46.000
345.300	14.913	14.500	29.413	-16.587	46.000
434.800	19.172	14.250	33.422	-12.578	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “■” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : ASUS MyPal A636N Pocket PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
174.100	9.981	14.700	24.681	-18.819	43.500
199.600	9.694	17.200	26.893	-16.607	43.500
204.500	9.822	17.200	27.022	-16.478	43.500
224.500	10.306	13.100	23.406	-22.594	46.000
384.500	15.761	16.600	32.361	-13.639	46.000
544.100	19.945	10.500	30.445	-15.555	46.000
Vertical					
177.500	9.699	16.500	26.198	-17.302	43.500
211.700	10.297	16.100	26.397	-17.103	43.500
384.050	16.822	15.500	32.322	-13.678	46.000
544.100	20.532	12.210	32.742	-13.258	46.000
605.100	21.816	9.400	31.215	-14.785	46.000
689.600	20.441	8.400	28.841	-17.159	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : ASUS MyPal A636N Pocket PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
211.800	9.497	15.200	24.697	-18.803	43.500
357.300	15.198	14.200	29.398	-16.602	46.000
396.100	16.268	14.400	30.668	-15.332	46.000
544.100	19.945	9.500	29.445	-16.555	46.000
614.500	20.778	9.240	30.018	-15.982	46.000
619.200	21.049	8.900	29.949	-16.051	46.000
Vertical					
204.600	9.887	16.300	26.187	-17.313	43.500
211.800	10.287	16.200	26.487	-17.013	43.500
216.700	10.670	13.600	24.270	-21.730	46.000
367.500	16.475	15.100	31.575	-14.425	46.000
415.500	19.614	13.200	32.814	-13.186	46.000
689.600	20.441	8.400	28.841	-17.159	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “■” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

5. Band Edge

5.1. Test Equipment

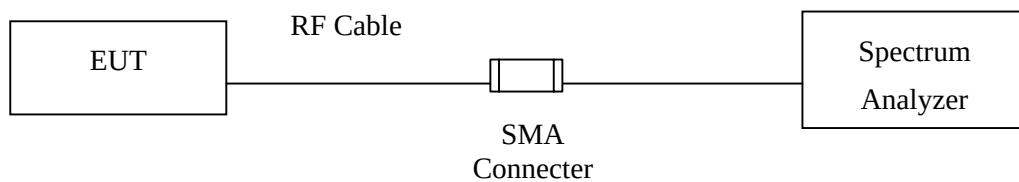
The following test equipments are used during the band edge tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	HP	E4407B / US39440758	May, 2005
X Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
X Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
X Pre-Amplifier	HP	8447D/3307A01812	May, 2005
X Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
X Horn Antenna	EM	EM6917 / 103325	May, 2005

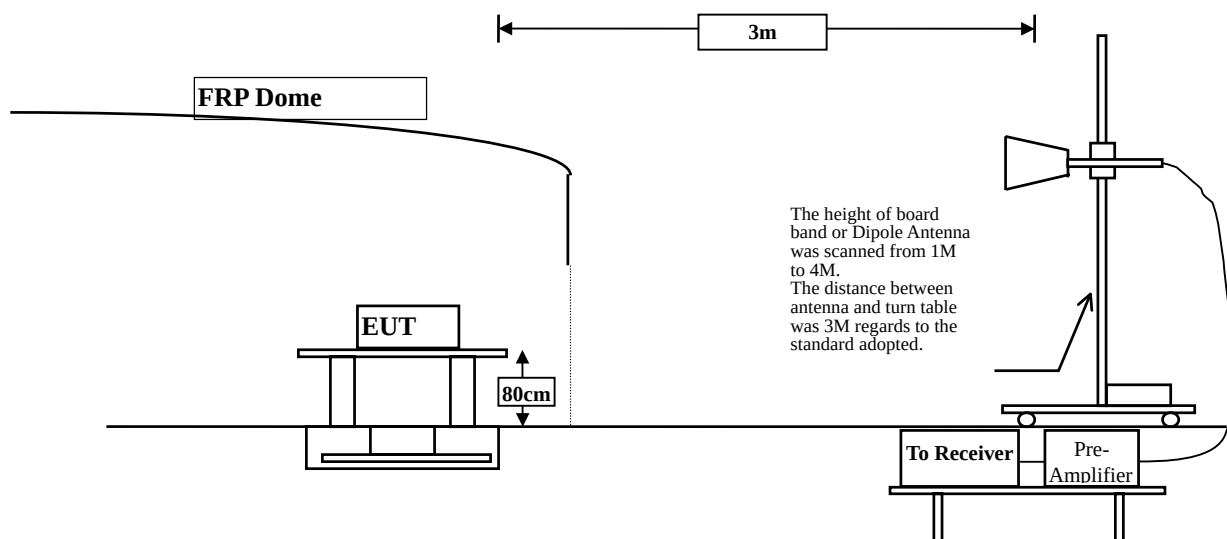
- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

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)).

5.4. 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: 2003 on radiated 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.

5.5. Uncertainty

The measurement uncertainty Conducted is defined as ± 1 MHz and Radiated above 1GHz as ± 3.9 dB.

5.6. Test Result of Band Edge

Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

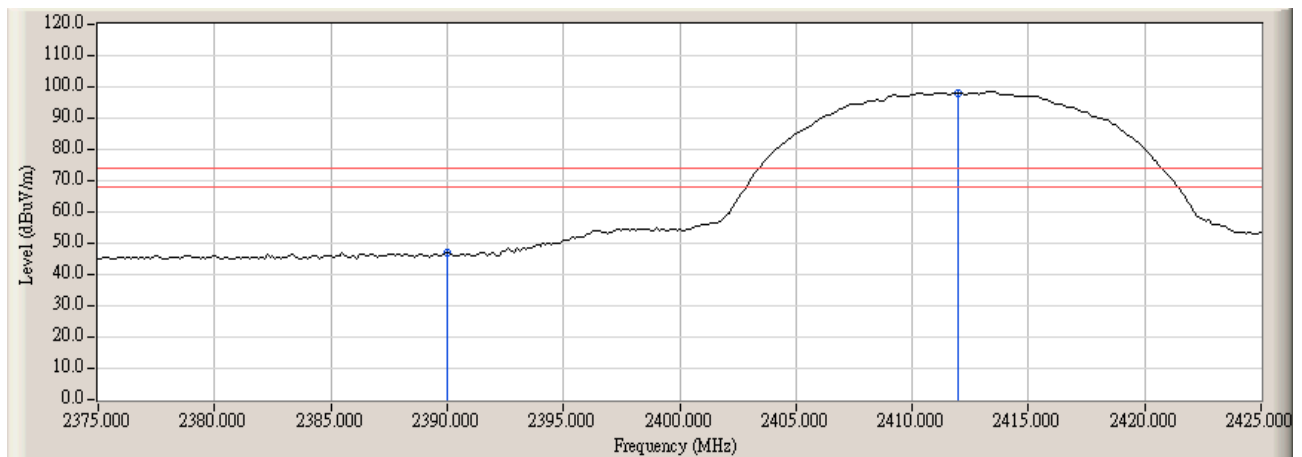
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	48.668	46.920	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 1: (Horizontal)



Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

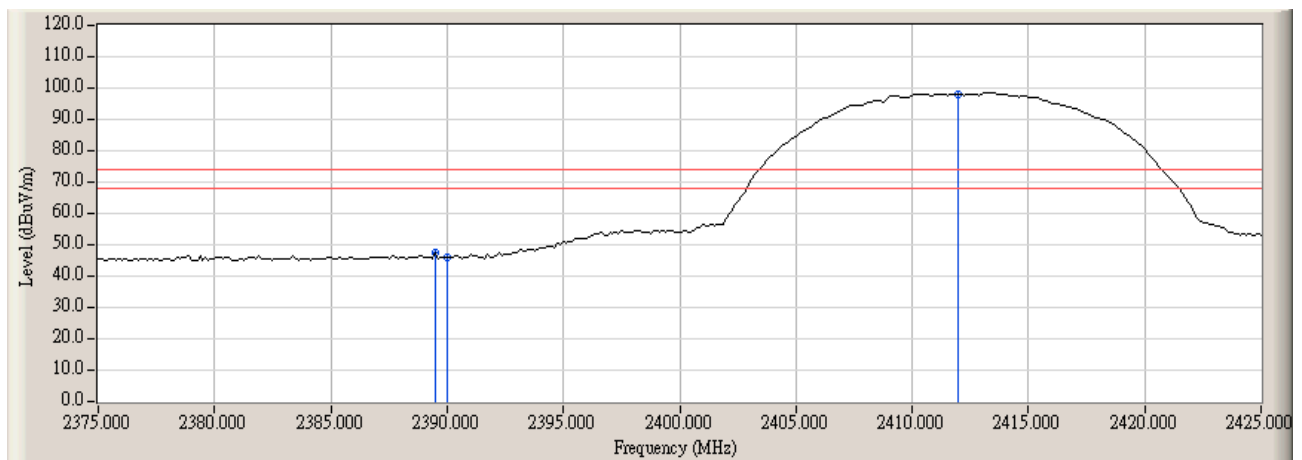
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	47.718	45.970	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 1: (Vertical)

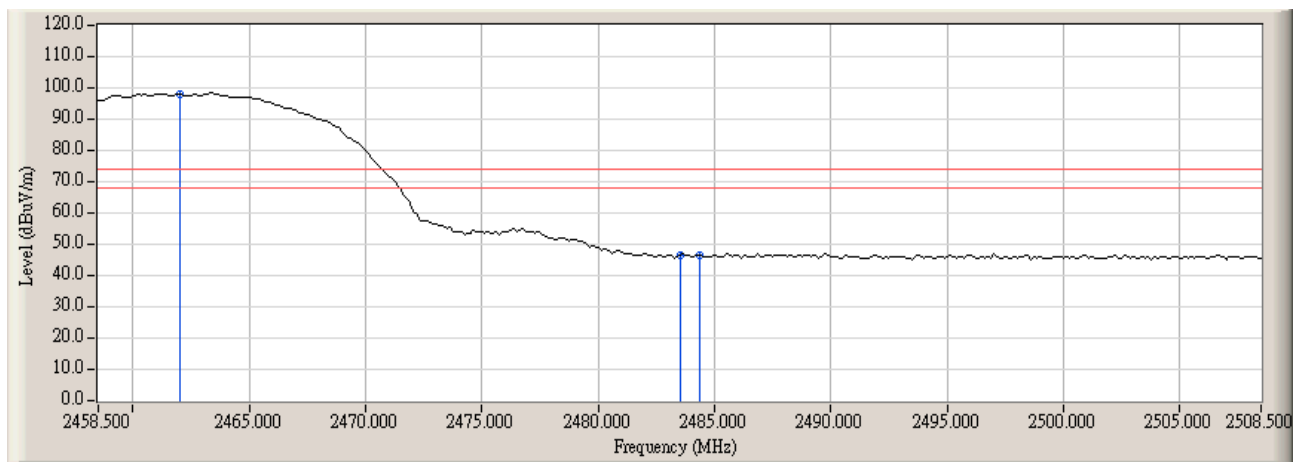


Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2483.500	47.641	46.250	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

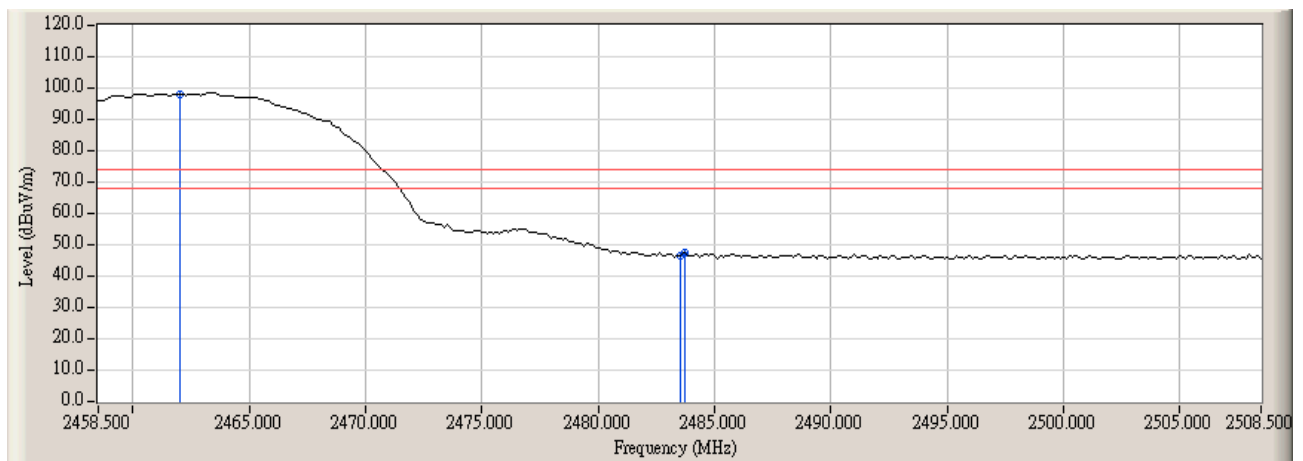


Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2483.500	47.651	46.260	74.00	54.00	Pass
11(Average)	--	--	--	74.00	54.00	Pass

Figure Channel 11: (Vertical)



Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g

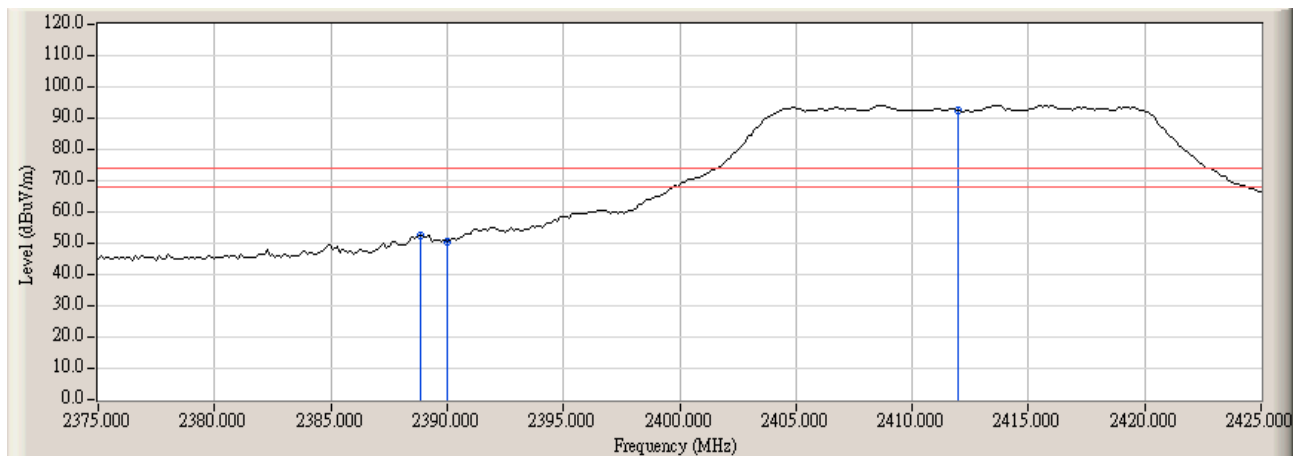
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	52.488	50.740	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 1: (Horizontal)



Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g

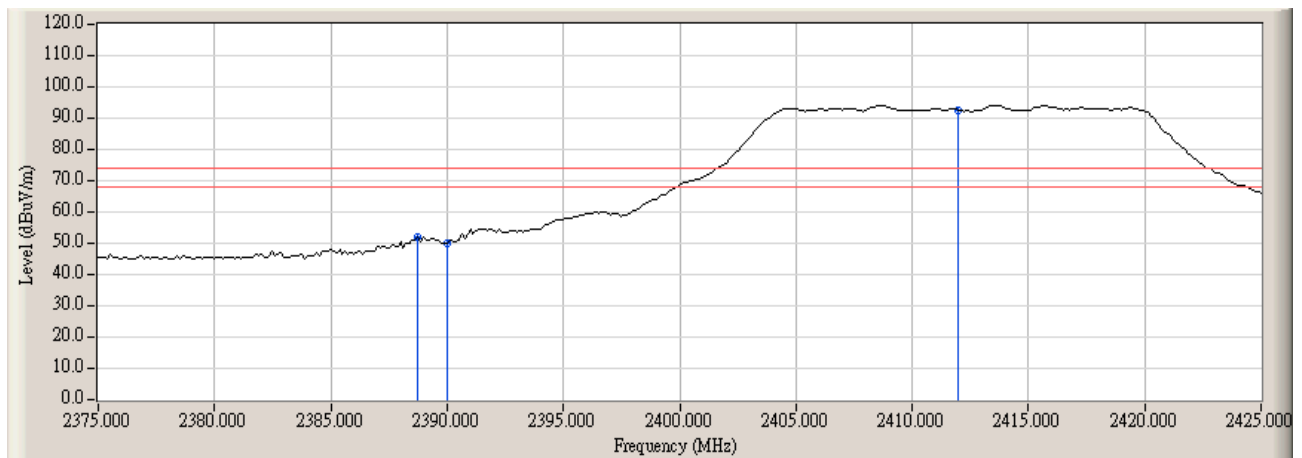
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	51.978	50.230	74.00	54.00	Pass
1 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 1: (Vertical)

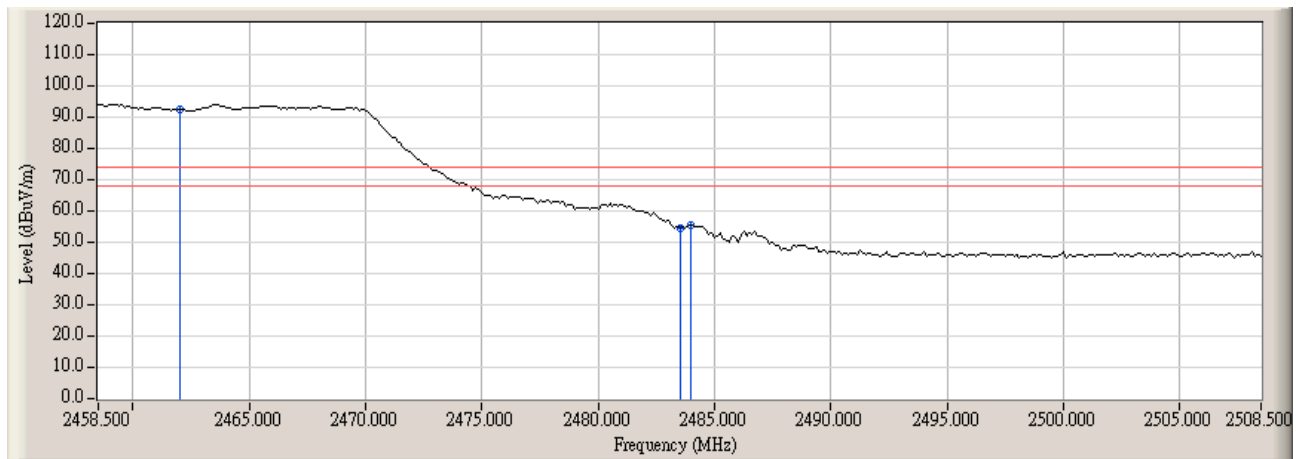


Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	56.081	54.690	74.00	54.00	Pass
11(Average)	2483.500	40.841	39.450	74.00	54.00	Pass

Figure Channel 11: (Horizontal)

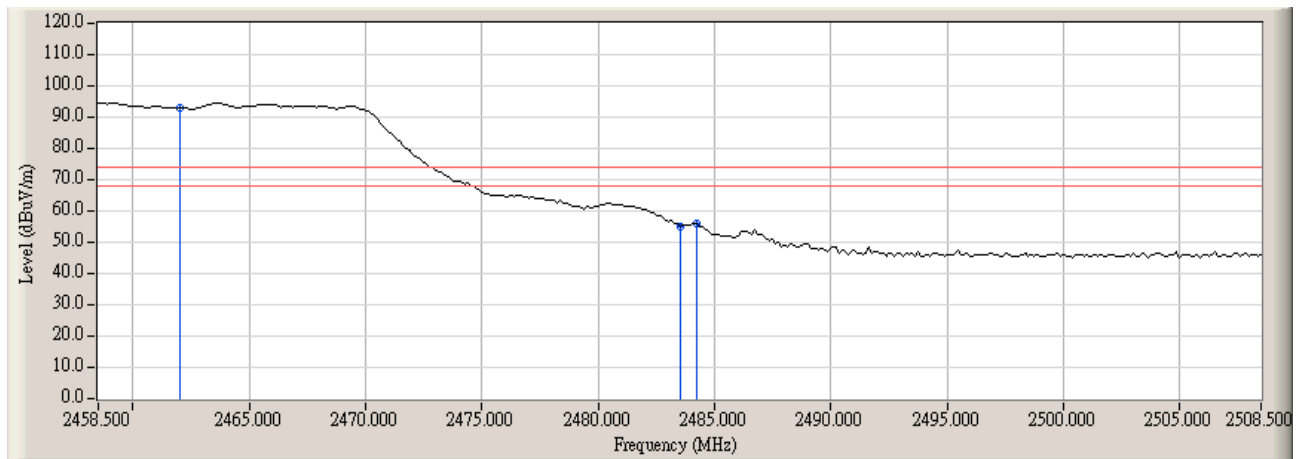


Product : ASUS MyPal A636N Pocket PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	56.551	55.160	74.00	54.00	Pass
11(Average)	2483.500	41.121	39.730	74.00	54.00	Pass

Figure Channel 11: (Vertical)



6. Occupied Bandwidth

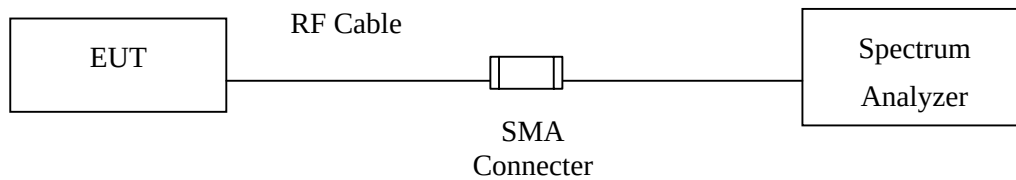
6.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

6.2. Test Setup



6.3. Limits

The minimum bandwidth shall be at least 500kHz.

6.4. Uncertainty

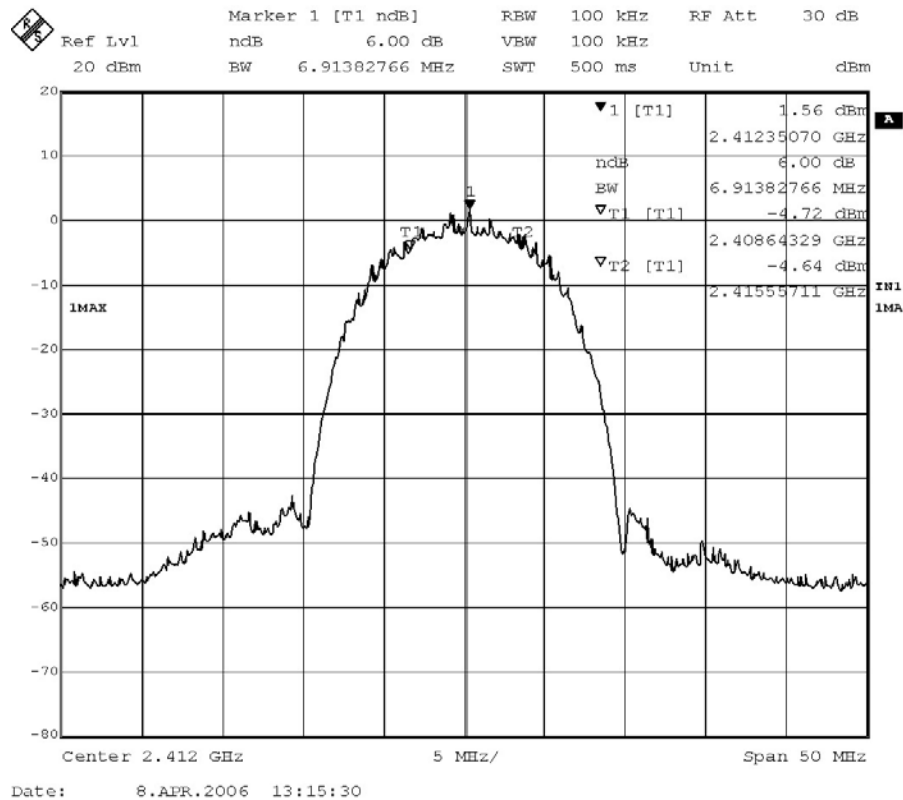
The measurement uncertainty is defined as ± 1.27 dB

6.5. Test Result of Occupied Bandwidth

Product : ASUS MyPal A636N Pocket PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2412.00	6910	>500	Pass

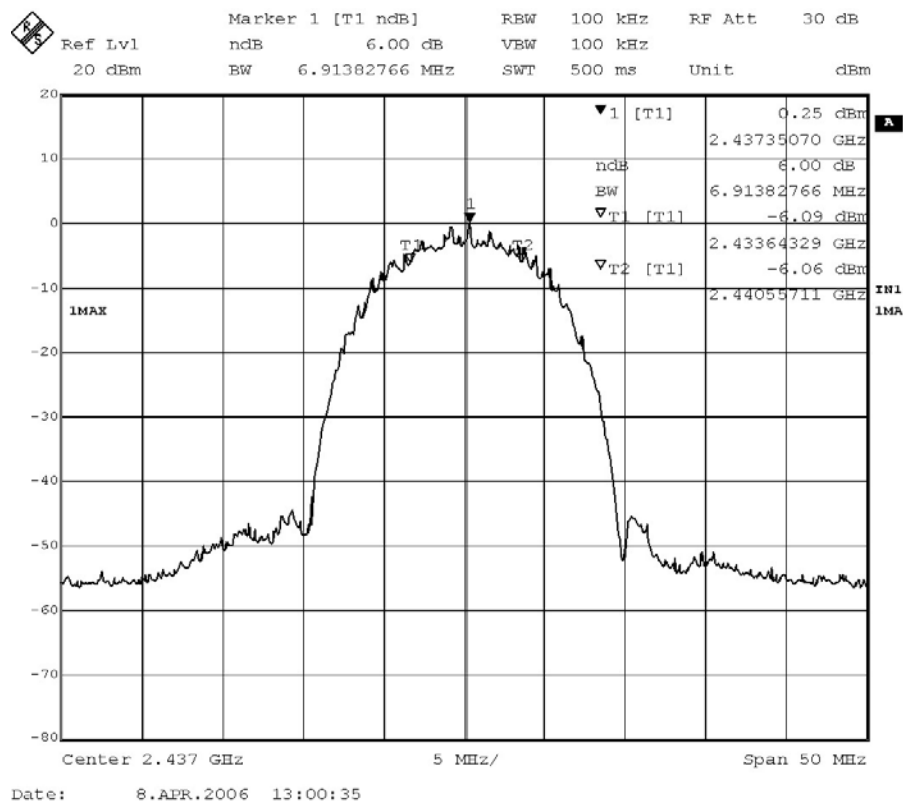
Figure Channel 1: 11Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2437.00	6910	>500	Pass

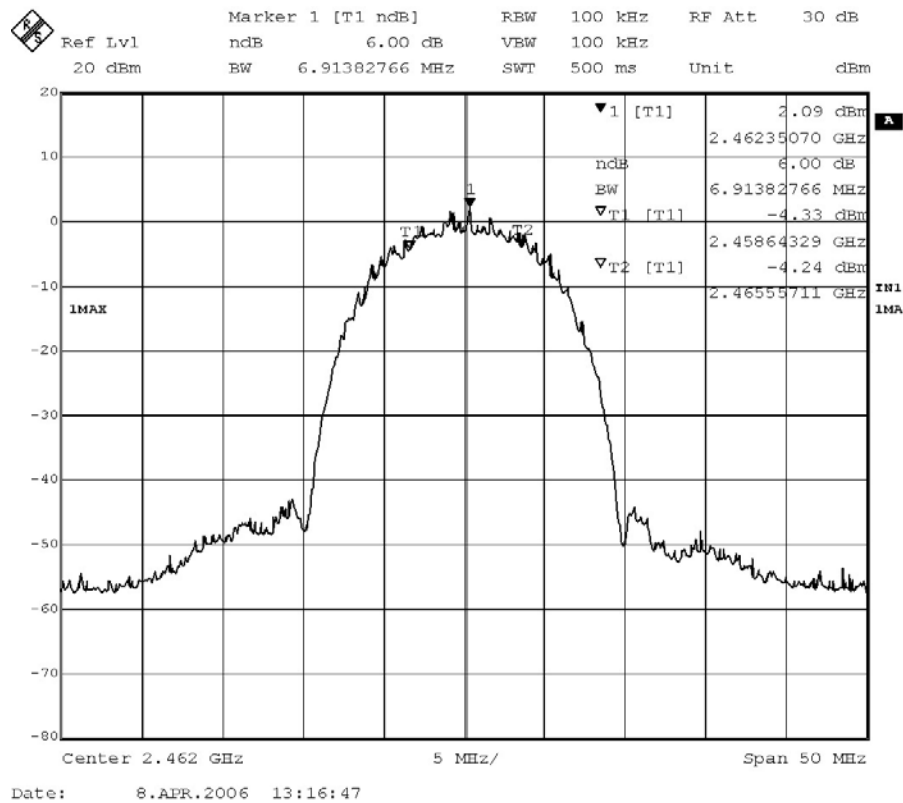
Figure Channel 6: 11Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2462.00	6910	>500	Pass

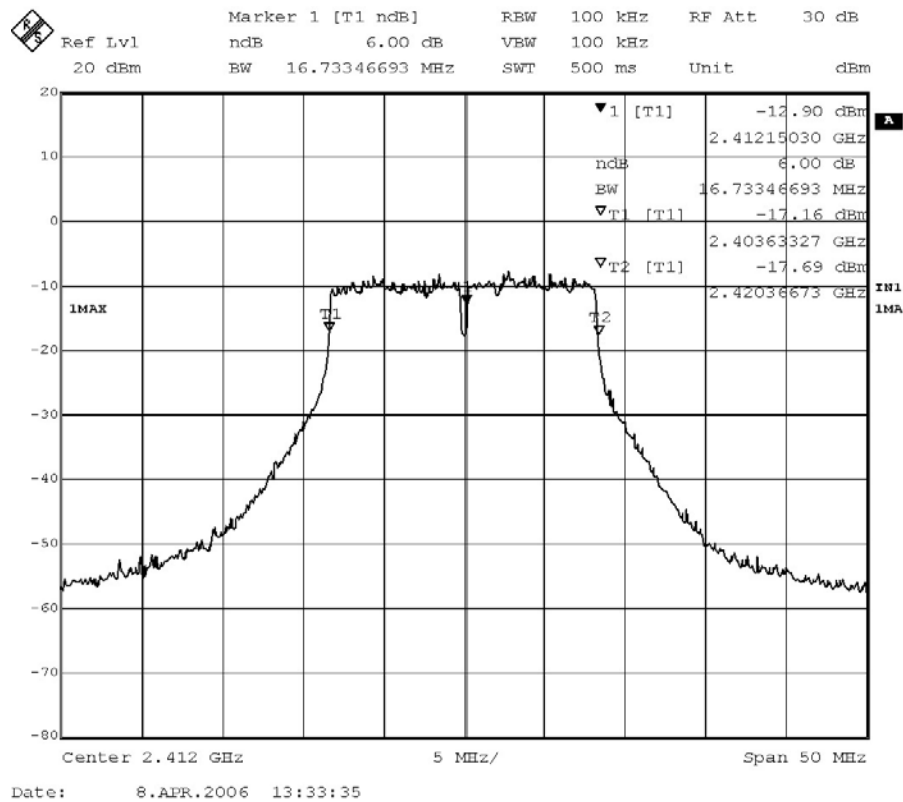
Figure Channel 11: 11Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2412.00	16730	>500	Pass

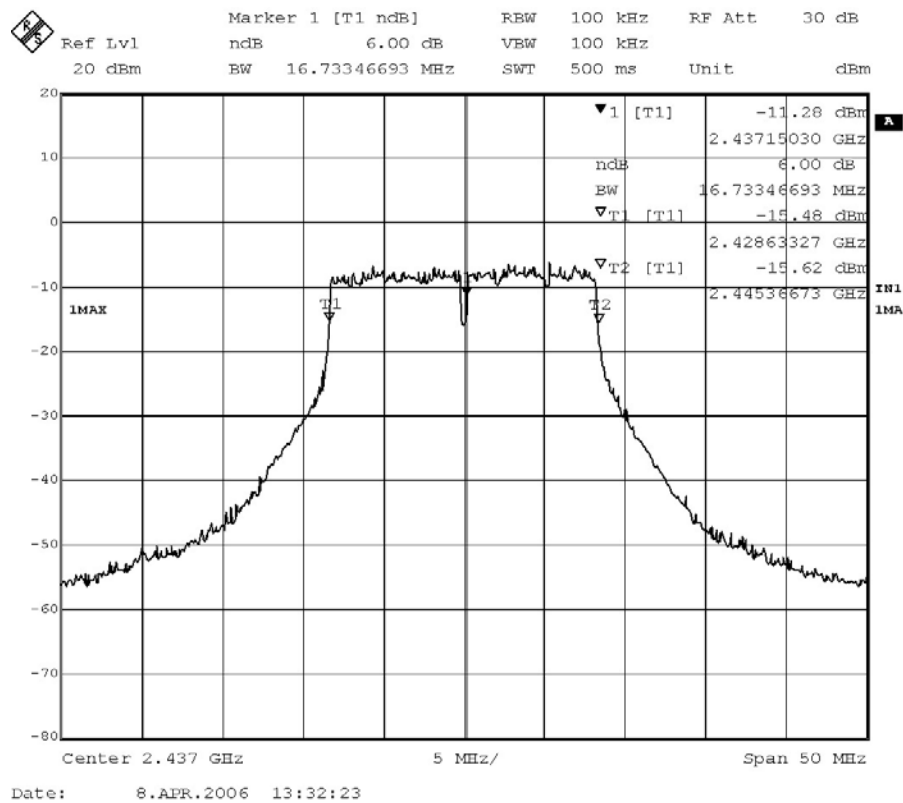
Figure Channel 1: 54Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2437.00	16730	>500	Pass

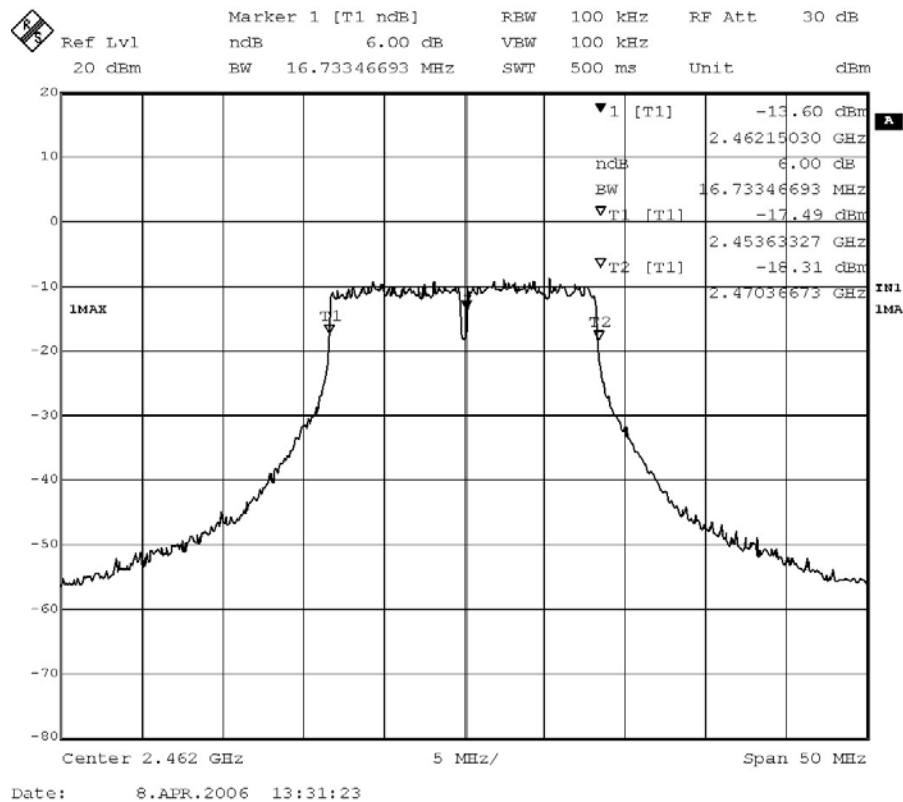
Figure Channel 6: 54Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2462.00	16730	>500	Pass

Figure Channel 11: 54Mbps



7. Power Density

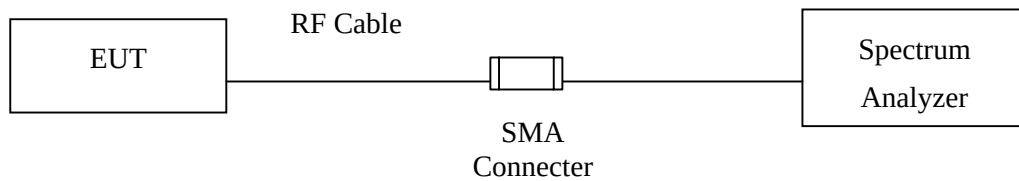
7.1. Test Equipment

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

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005

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. Limits

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

7.4. Uncertainty

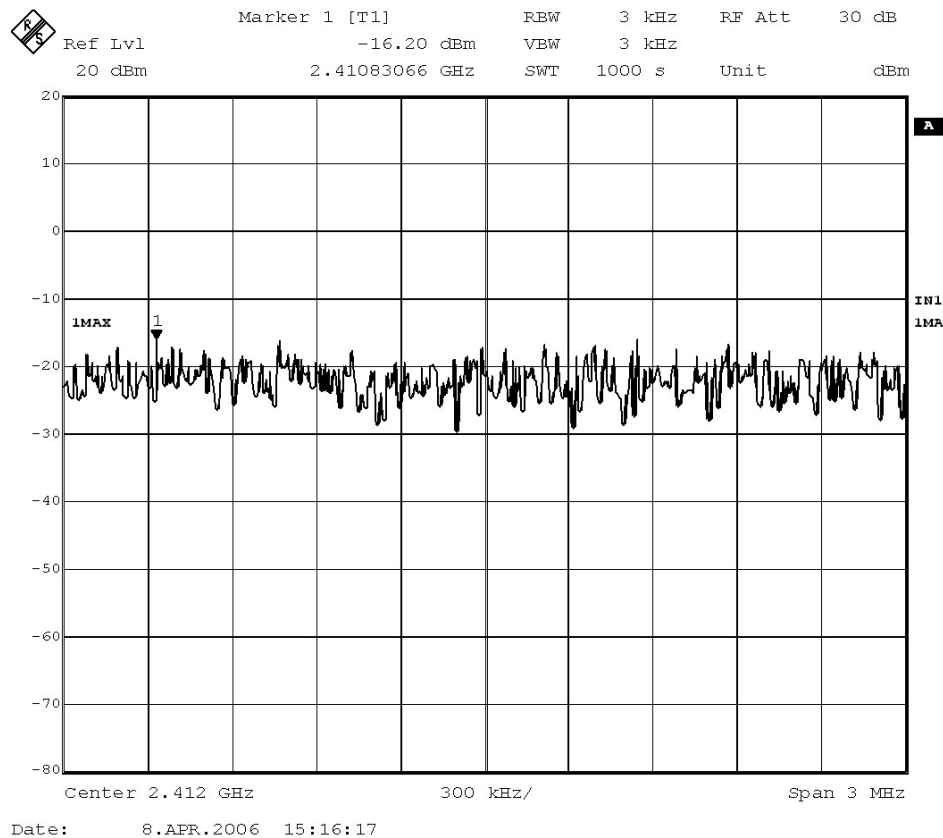
The measurement uncertainty is defined as ± 1.27 dB

7.5. Test Result of Power Density

Product : ASUS MyPal A636N Pocket PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2412.00	-16.20	< 8dBm	Pass

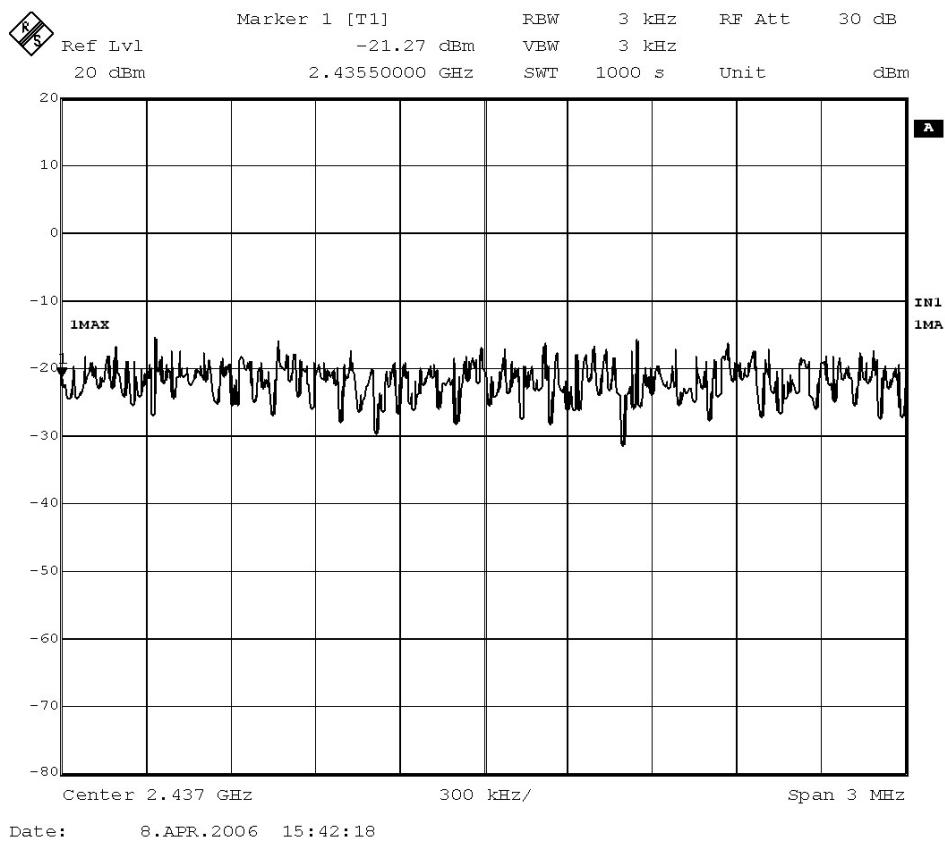
Figure Channel 1: 11Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter 802.11b (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2437.000	-21.27	< 8dBm	Pass

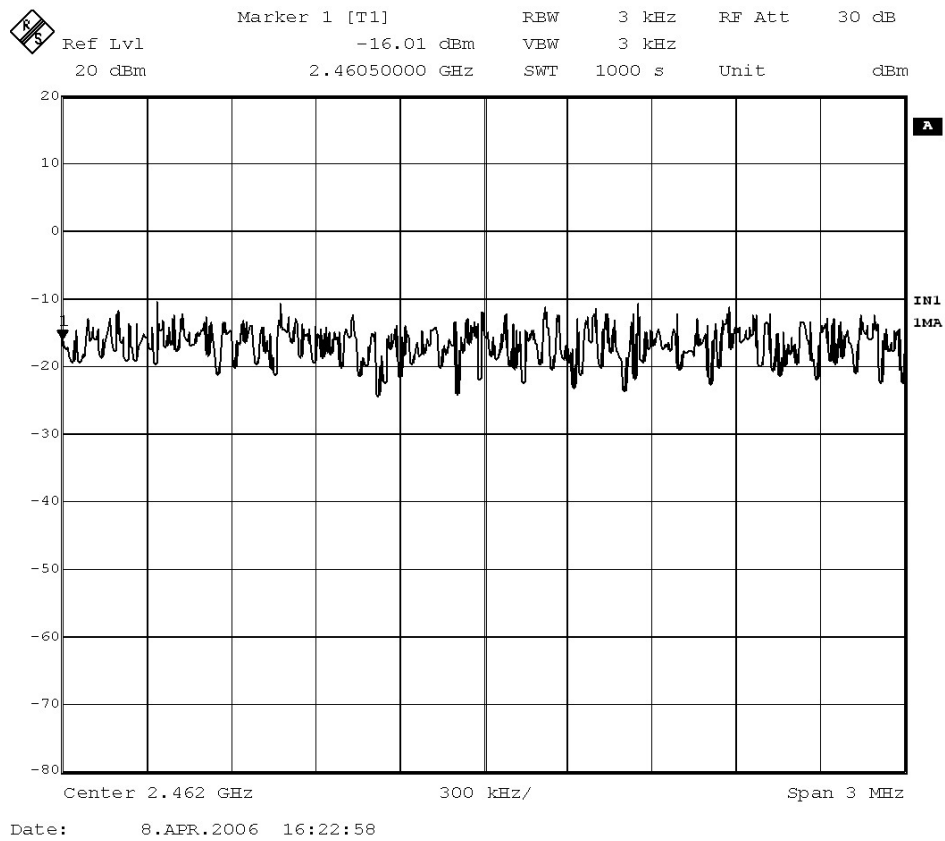
Figure Channel 6: 11Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2462.00	-16.01	< 8dBm	Pass

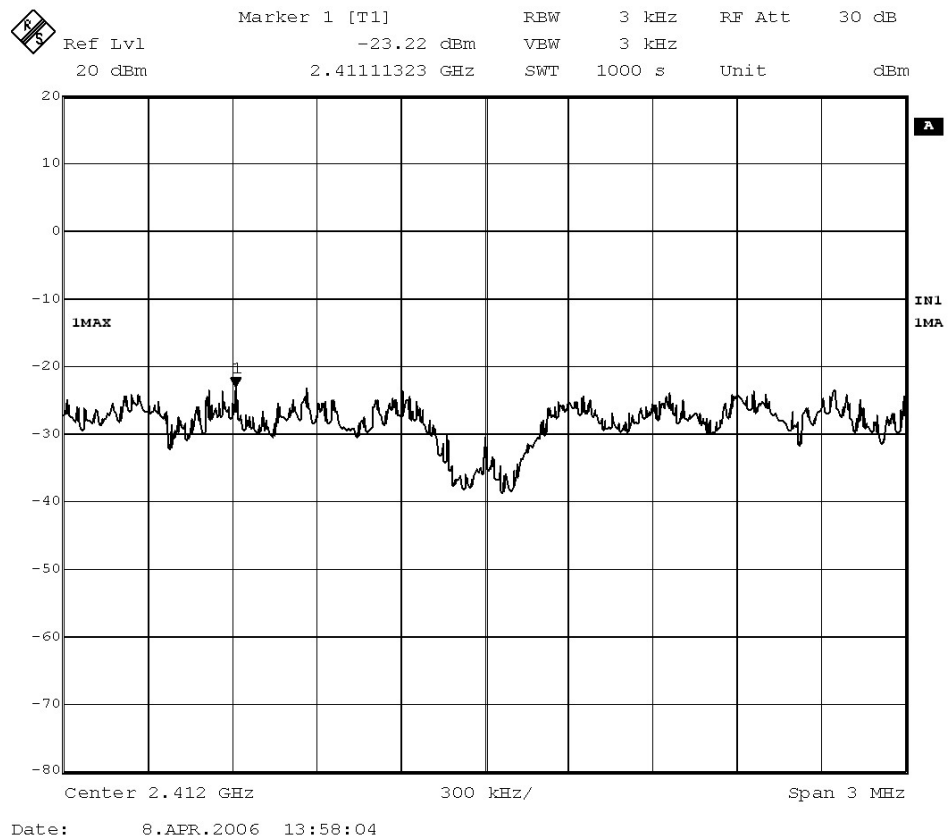
Figure Channel 11: 11Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2412.00	-23.22	< 8dBm	Pass

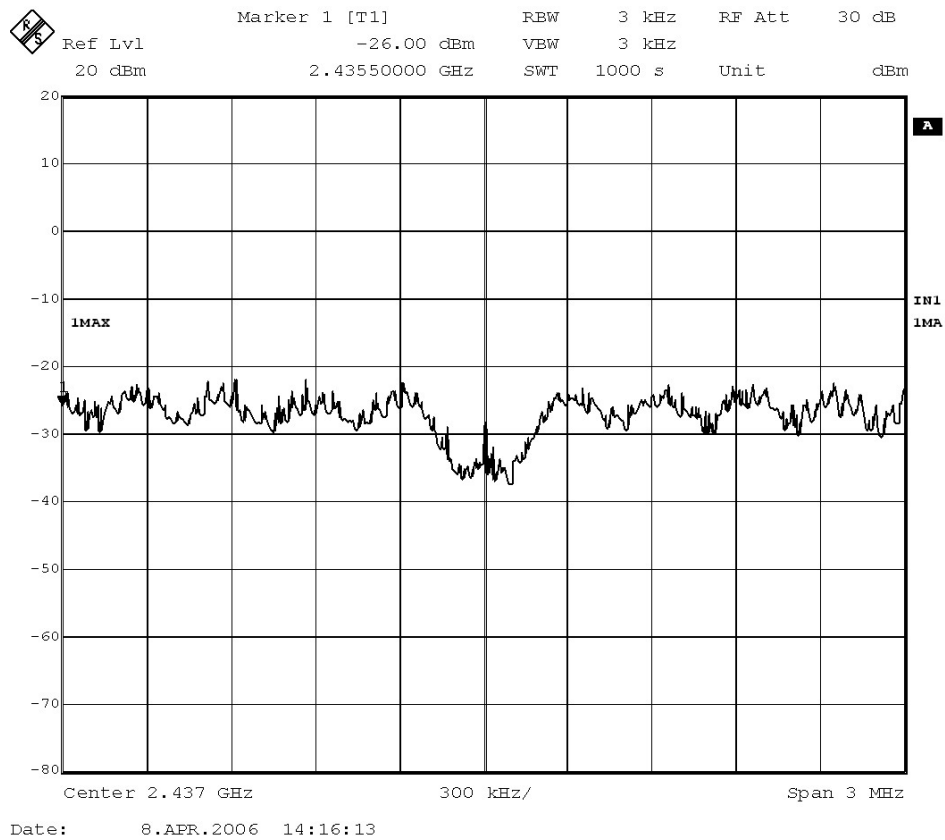
Figure Channel 1: 54Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : **Mode 2:** Transmitter 802.11g (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2437.000	-26.00	< 8dBm	Pass

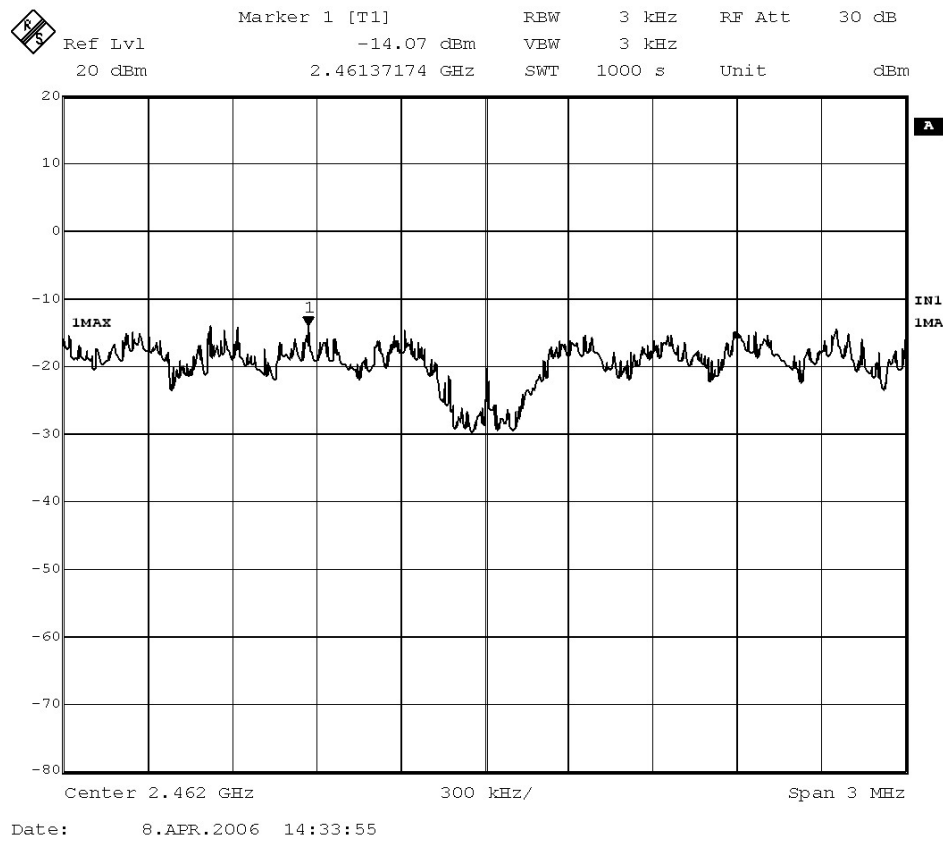
Figure Channel 6: 54Mbps



Product : ASUS MyPal A636N Pocket PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : **Mode 2: Transmitter 802.11g (2462MHz)**

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2462.00	-14.07	< 8dBm	Pass

Figure Channel 11: 54Mbps



8. EMI Reduction Method During Compliance Testing

No modification was made during testing.