

#### 4.5. Peak Output Power Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Jul. 02. 2004      Temperature: 24      Humidity: 58%

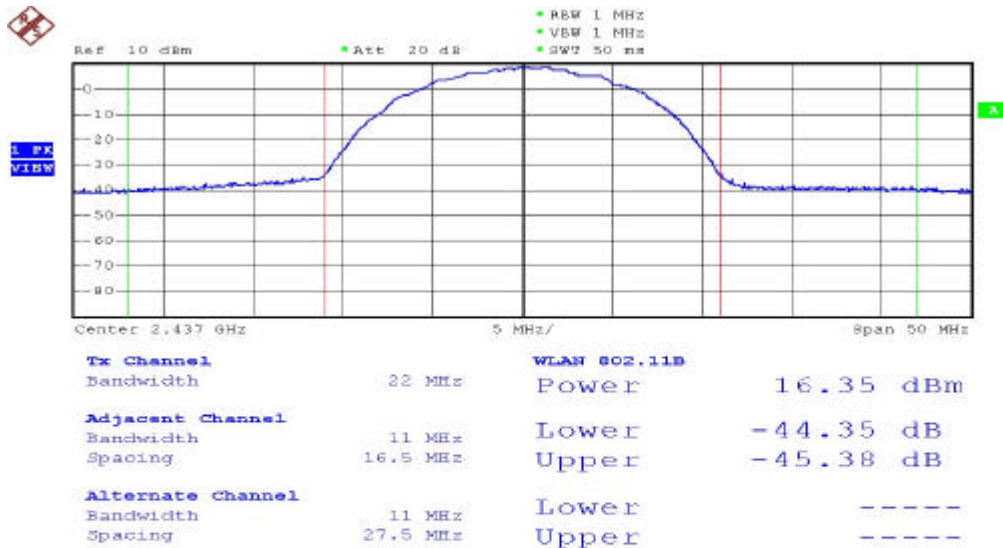
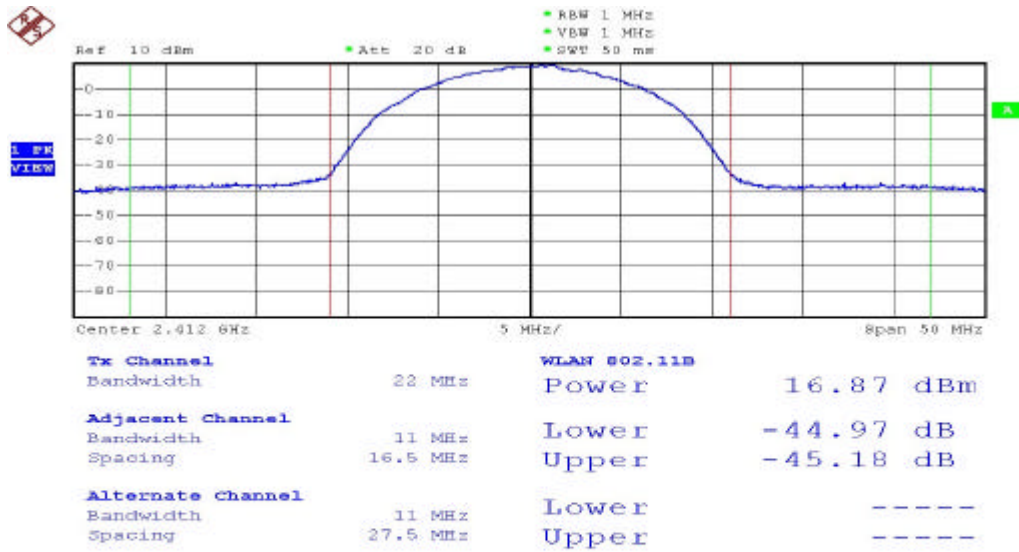
- a) Channel 01: Output Peak Power is 16.87 dBm or 48.640 mW
- b) Channel 06: Output Peak Power is 16.35 dBm or 43.152 mW
- c) Channel 11: Output Peak Power is 16.26 dBm or 42.267 mW

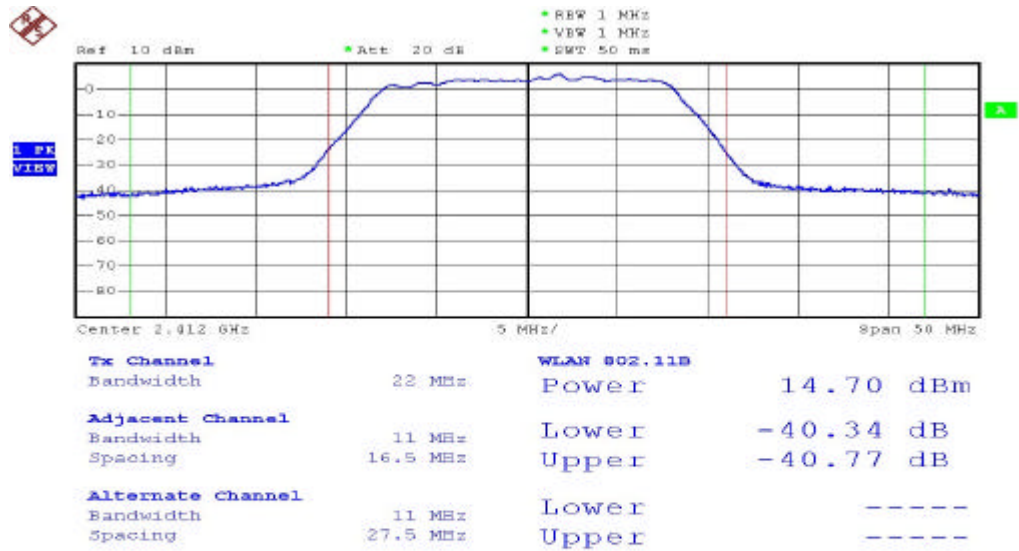
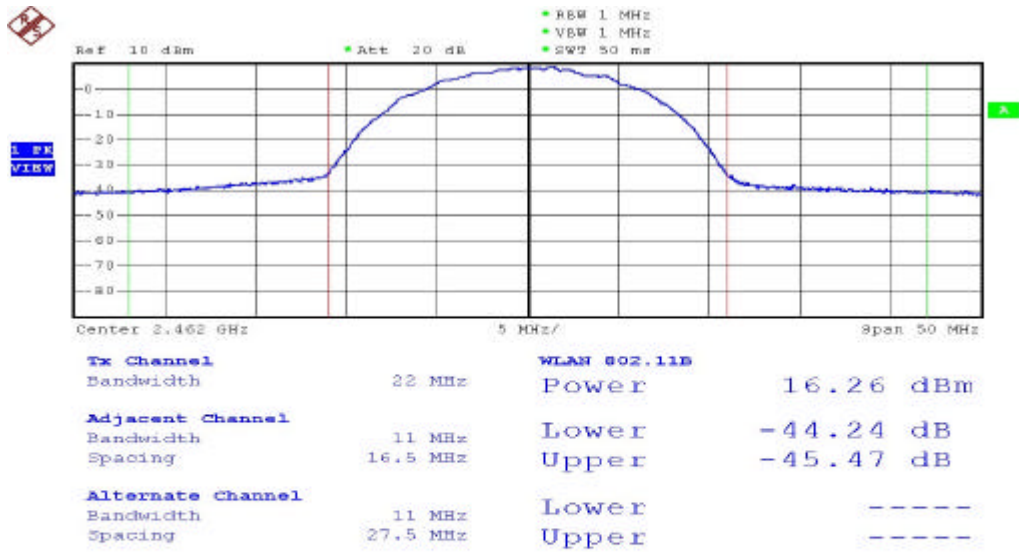
(2) Modulation Standard: IEEE 802.11g

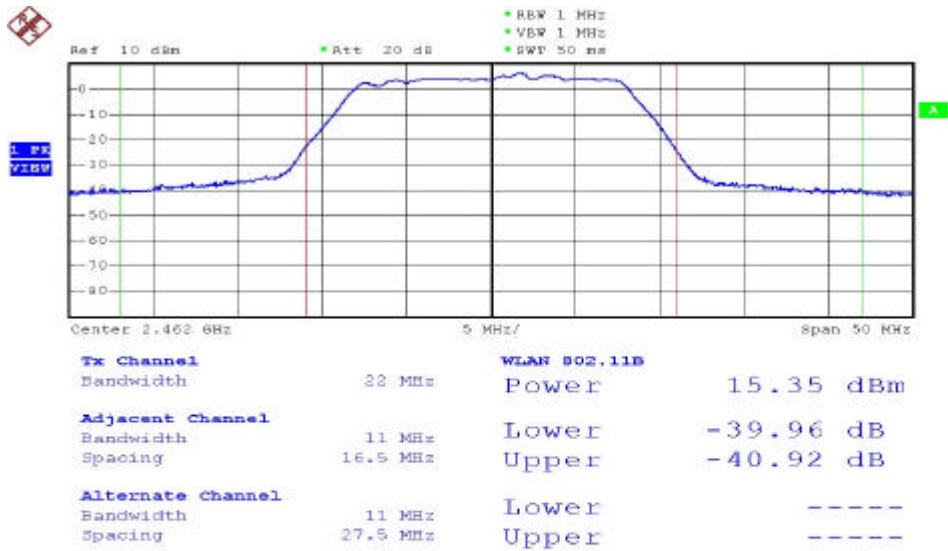
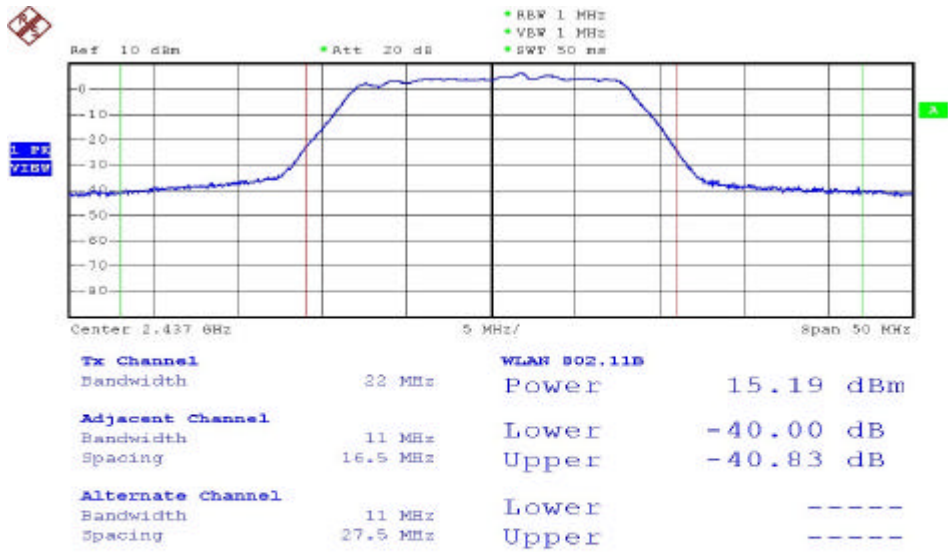
Test Date: Jul. 02. 2004      Temperature: 24      Humidity: 58%

- a) Channel 01: Output Peak Power is 14.70 dBm or 29.512 mW
- b) Channel 06: Output Peak Power is 15.19 dBm or 33.037 mW
- c) Channel 11: Output Peak Power is 15.35 dBm or 34.277 mW

Note: Conducted Power = Reading Value + Cable Loss







#### 4.6. Band Edges Measurement Data

(1) Modulation Standard: IEEE 802.11b

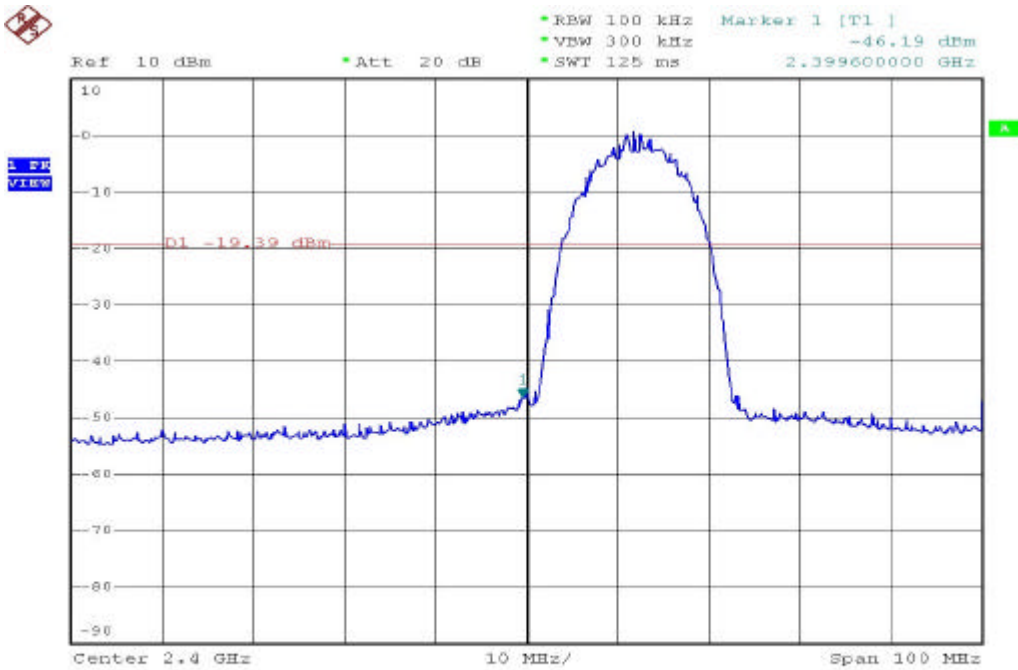
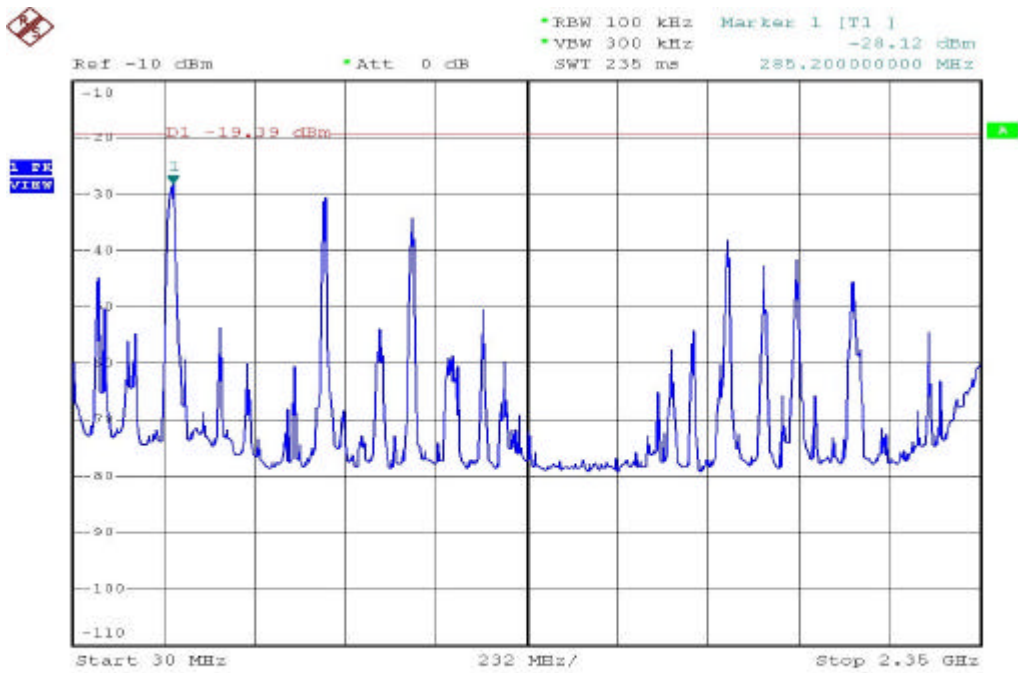
Test Date: Jul. 02. 2004      Temperature: 24      Humidity: 58%

- a) Lower Band Edge: maximum value is -28.12 dBm that is attenuated more than 20dB
- b) Upper Band Edge: maximum value is -24.56 dBm that is attenuated more than 20dB

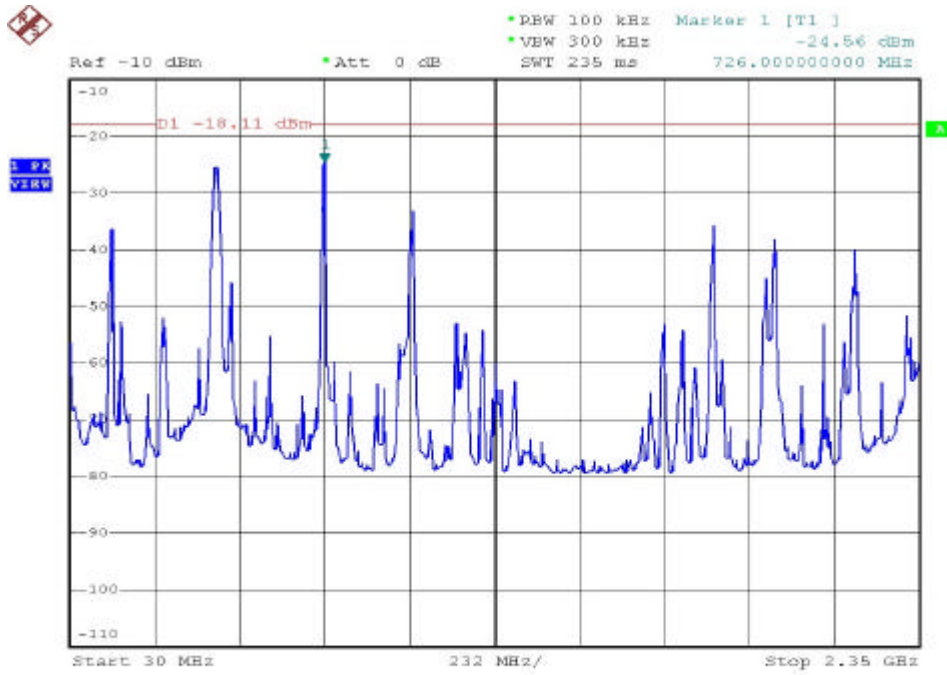
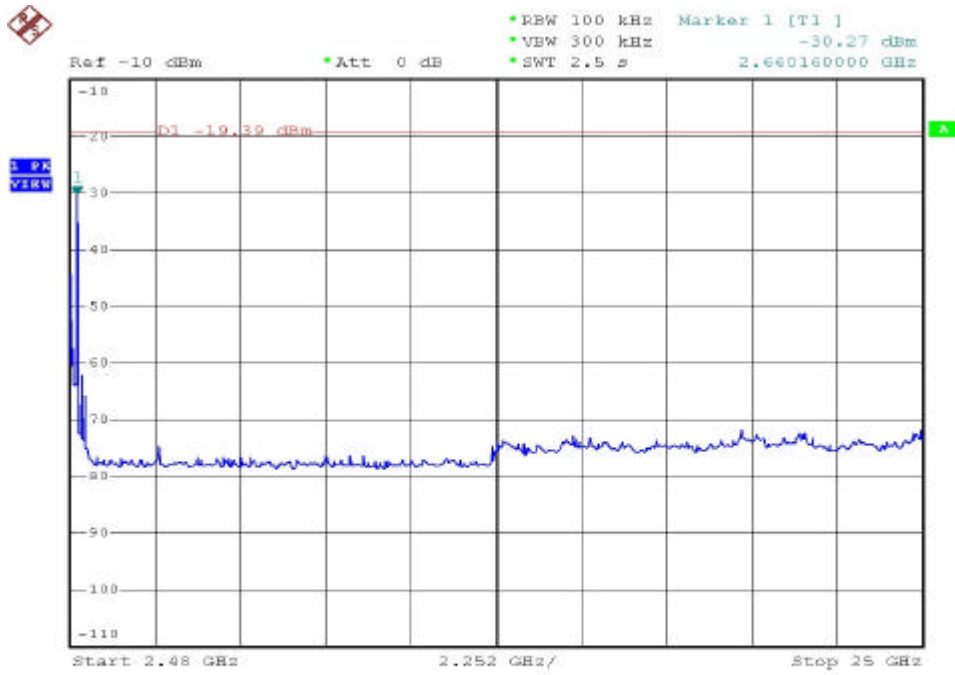
(2) Modulation Standard: IEEE 802.11g

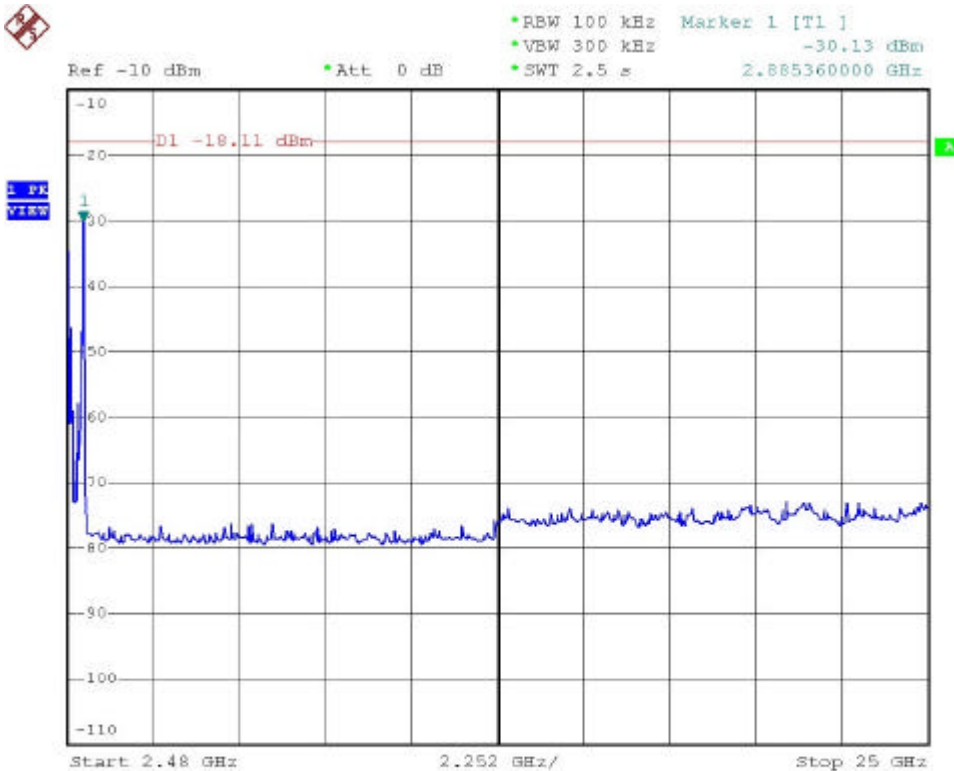
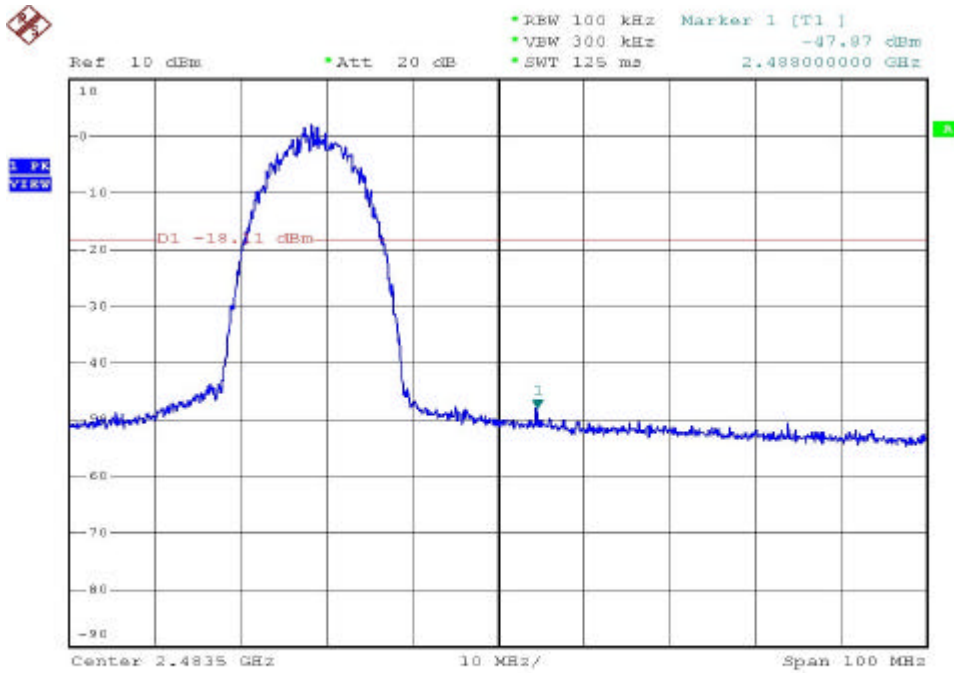
Test Date: Jul. 02. 2004      Temperature: 24      Humidity: 58%

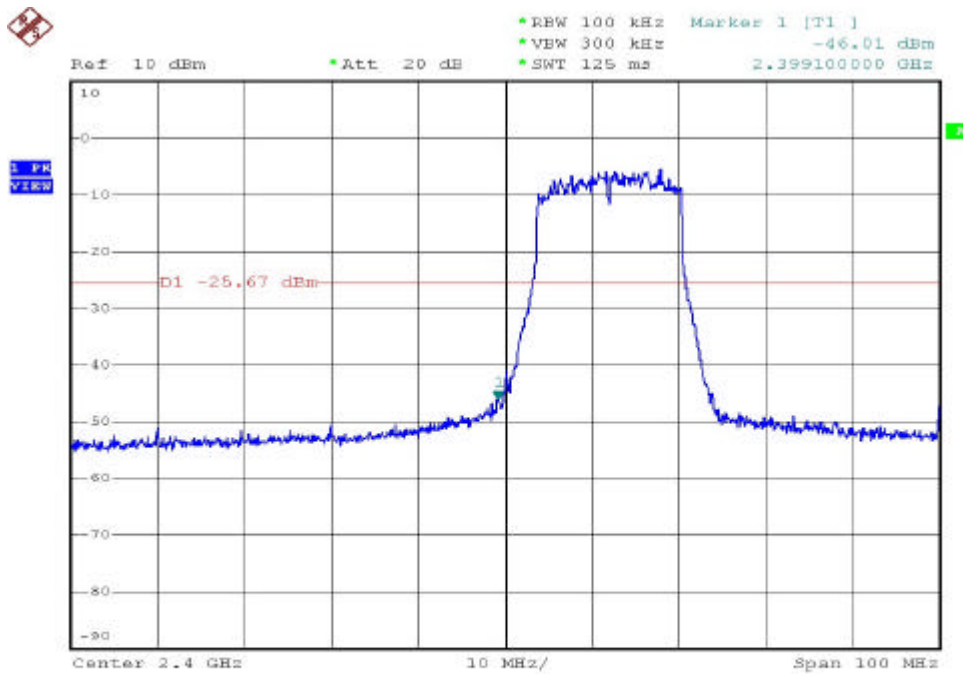
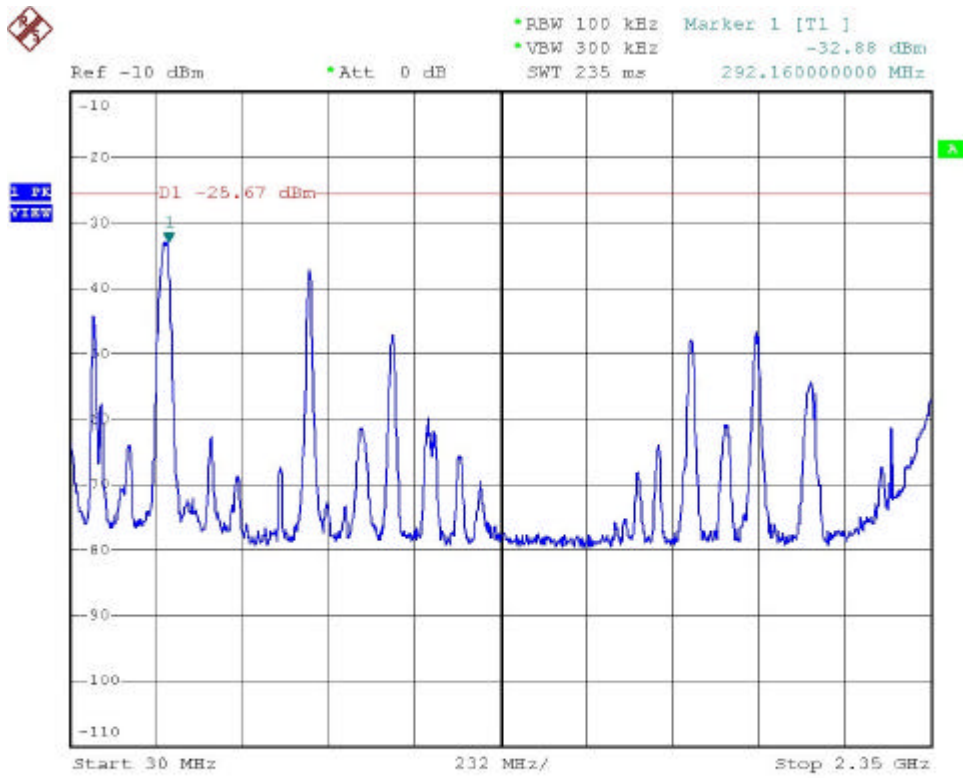
- a) Lower Band Edge: maximum value is -32.88 dBm that is attenuated more than 20dB
- b) Upper Band Edge: maximum value is -31.46 dBm that is attenuated more than 20dB

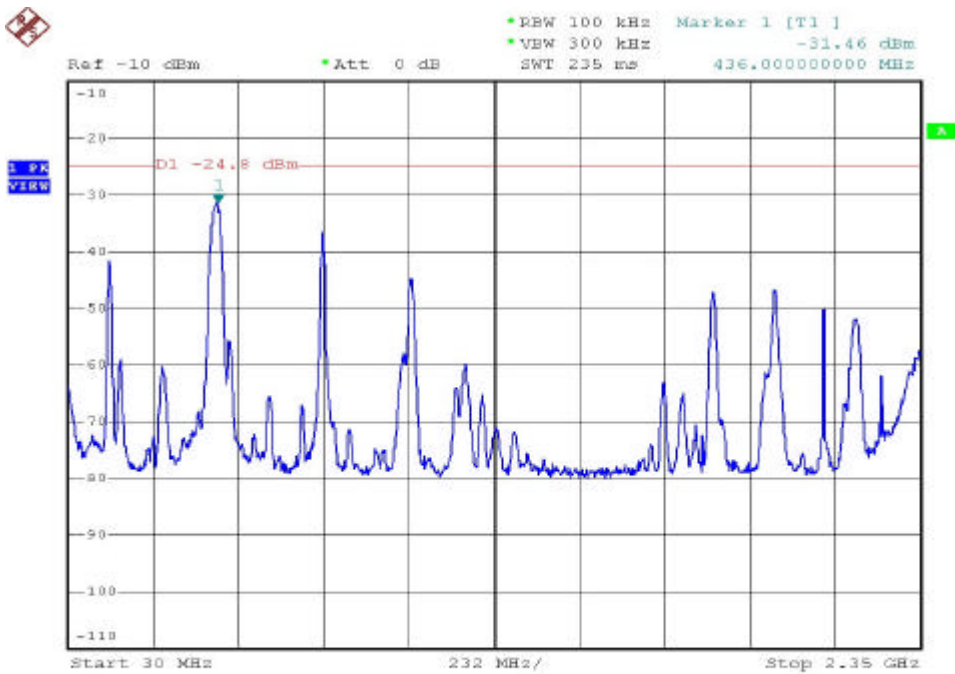
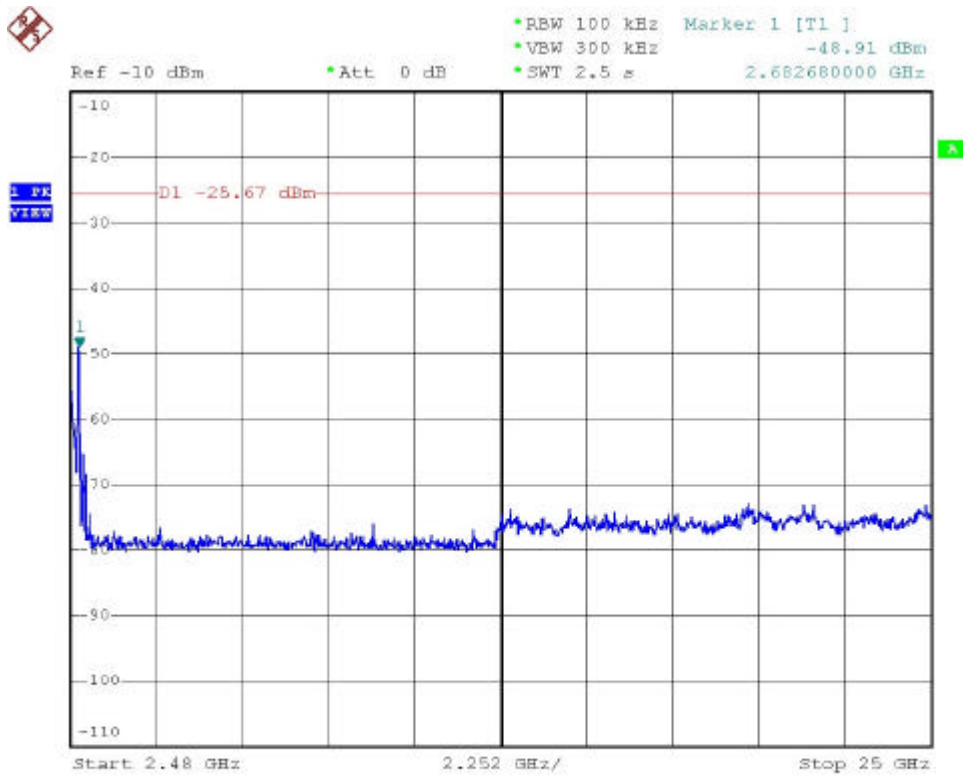


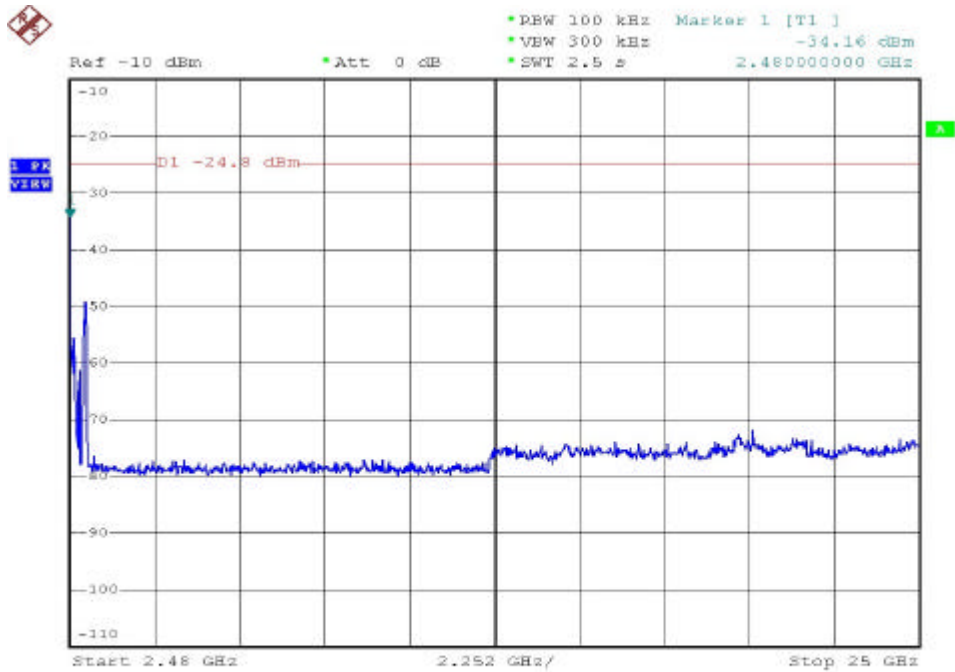
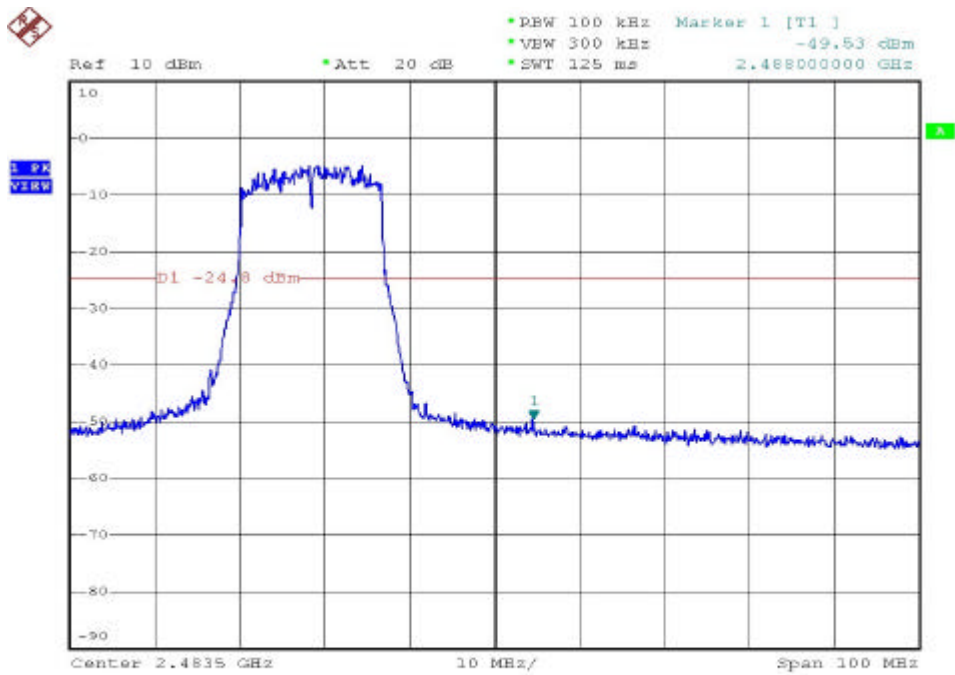












4.6.1. Note on Band edge Emission

Modulation Standard: IEEE 802.11b

Operation Mode: Normal Operating

Test Date: Jul. 02, 2004    Temperature: 24    Humidity: 58%

a) Channel 1

Fundamental Frequency: 2412 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2359.980	35.34	H	Peak	74	54	-38.66	270	1.5
2359.980	---	H	Ave	74	54	---	---	---
2389.764	32.70	V	Peak	74	54	-41.30	270	1.5
2389.764	---	V	Ave	74	54	---	---	---

b) Channel 11

Fundamental Frequency: 2462 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2483.660	34.03	H	Peak	74	54	-39.97	270	1.5
2483.660	---	H	Ave	74	54	---	---	---
2490.956	32.37	V	Peak	74	54	-41.63	270	1.5
2490.956	---	V	Ave	74	54	---	---	---

4.6.2. Modulation Standard: IEEE 802.11g

Operation Mode: Normal Operating

Test Date: Jul. 02, 2004    Temperature: 24    Humidity: 58%

c) Channel 1

Fundamental Frequency: 2412 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2360.184	34.89	H	Peak	74	54	-39.11	270	1.5
2360.184	---	H	Ave	74	54	---	---	---
2384.868	33.03	V	Peak	74	54	-40.97	270	1.5
2384.868	---	V	Ave	74	54	---	---	---

d) Channel 11

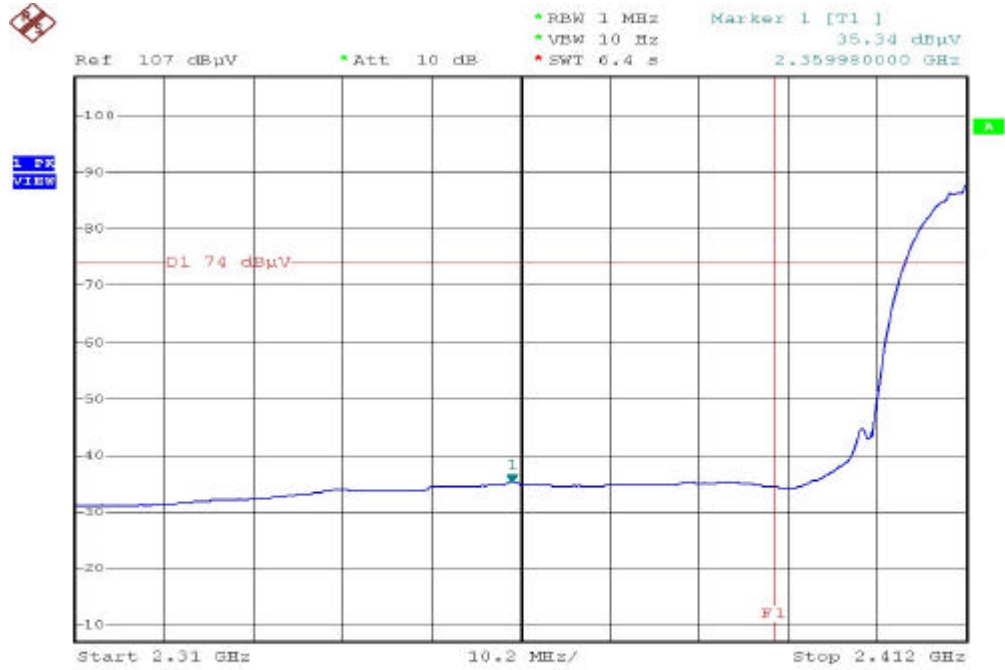
Fundamental Frequency: 2462 MHz

Frequency (MHz)	Level (dBuV)	polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
				Peak	Ave.			
2494.224	34.89	H	Peak	74	54	-39.11	270	1.5
2494.224	---	H	Ave	74	54	---	---	---
2492.552	32.23	V	Peak	74	54	-41.77	270	1.5
2492.552	---	V	Ave	74	54	---	---	---

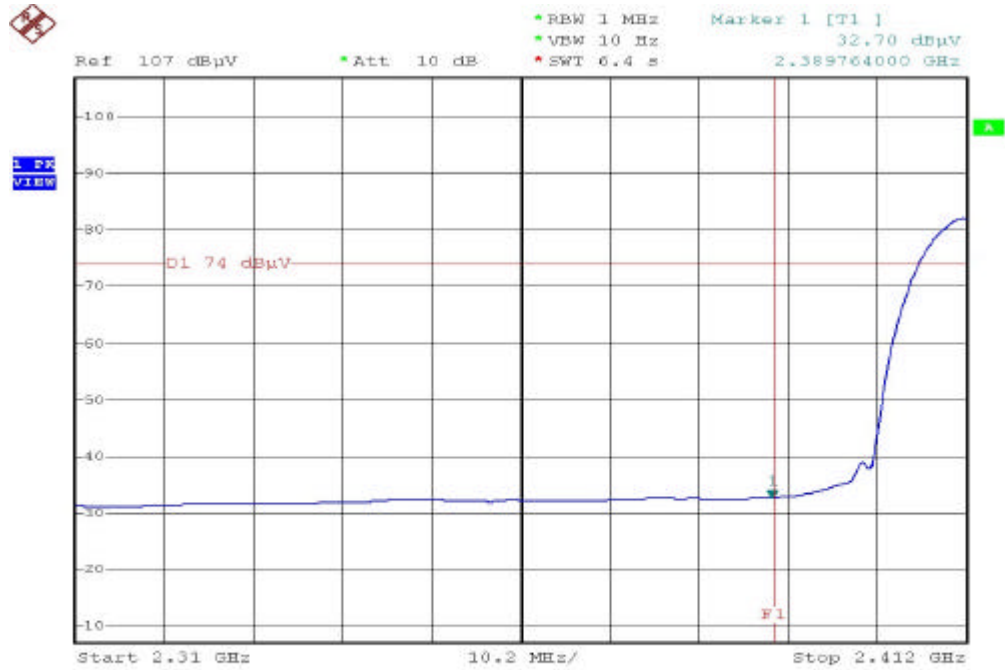
Modulation Standard: IEEE 802.11b

Channel 1

Pol/Phase: Horizontal



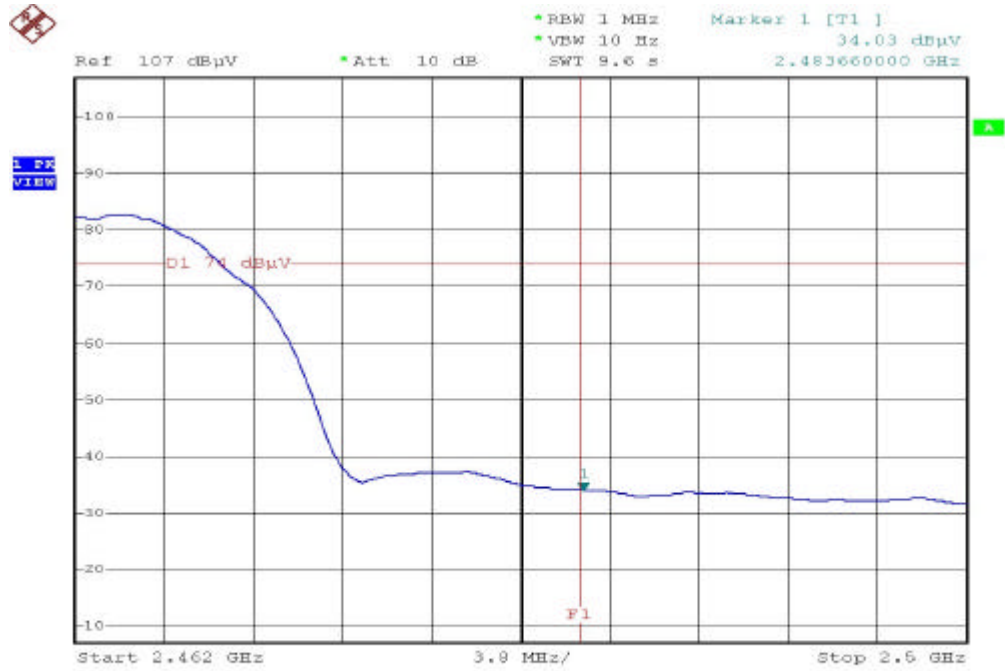
Pol/Phase: Vertical



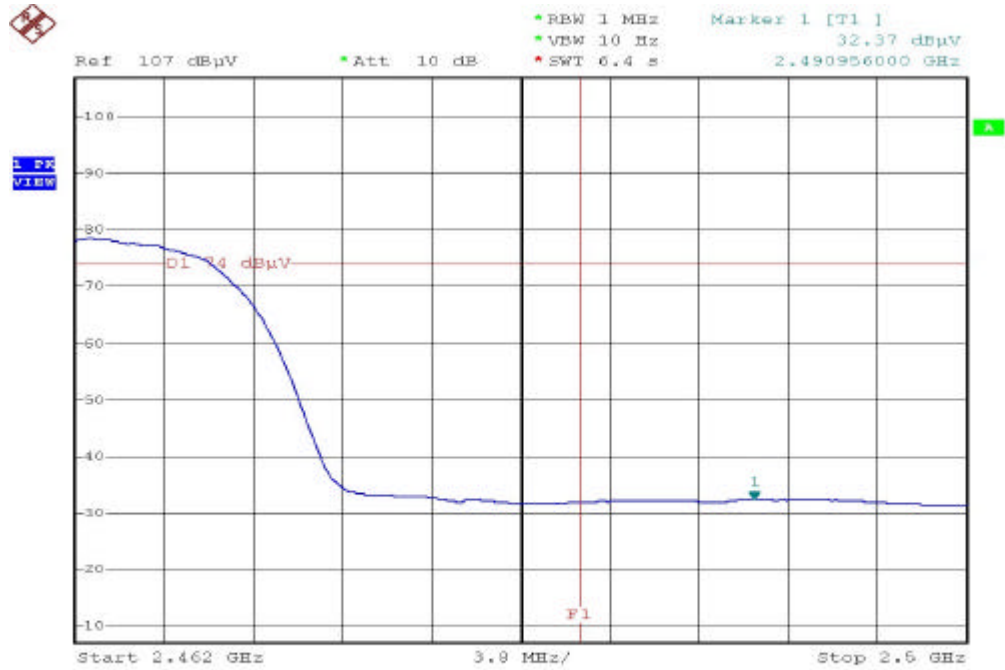


Channel 11

Pol/Phase: Horizontal



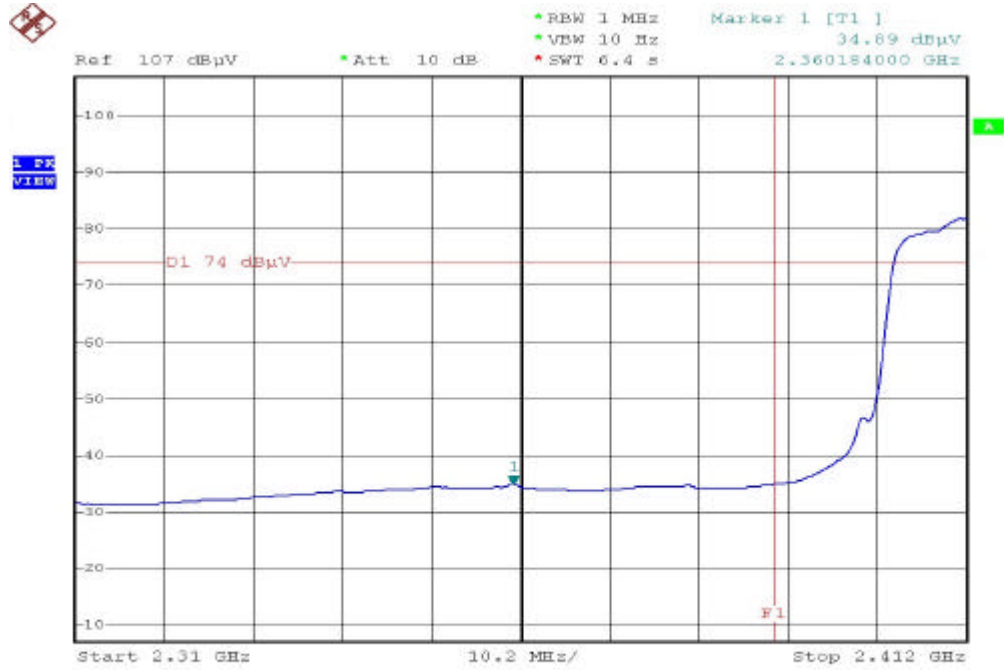
Pol/Phase: Vertical



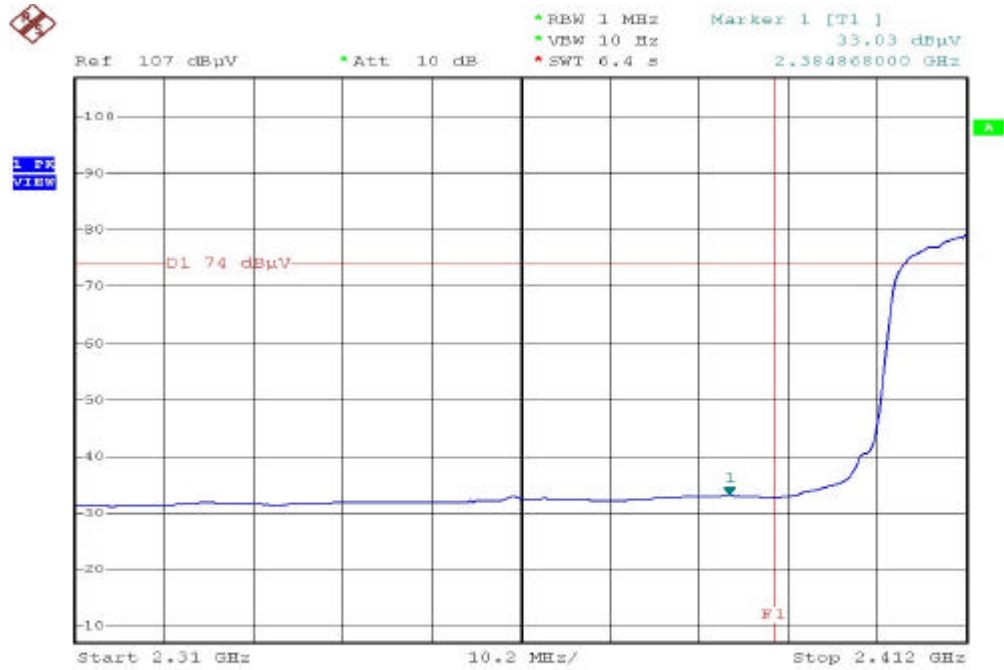
Modulation Standard: IEEE 802.11g

Channel 1

Pol/Phase: Horizontal

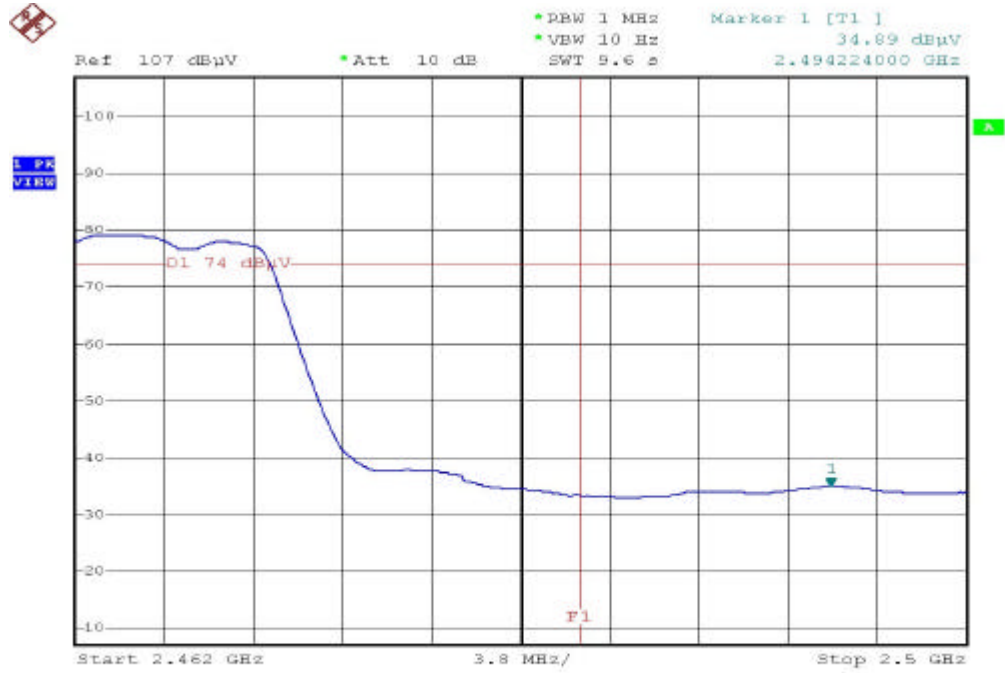


Pol/Phase: Vertical

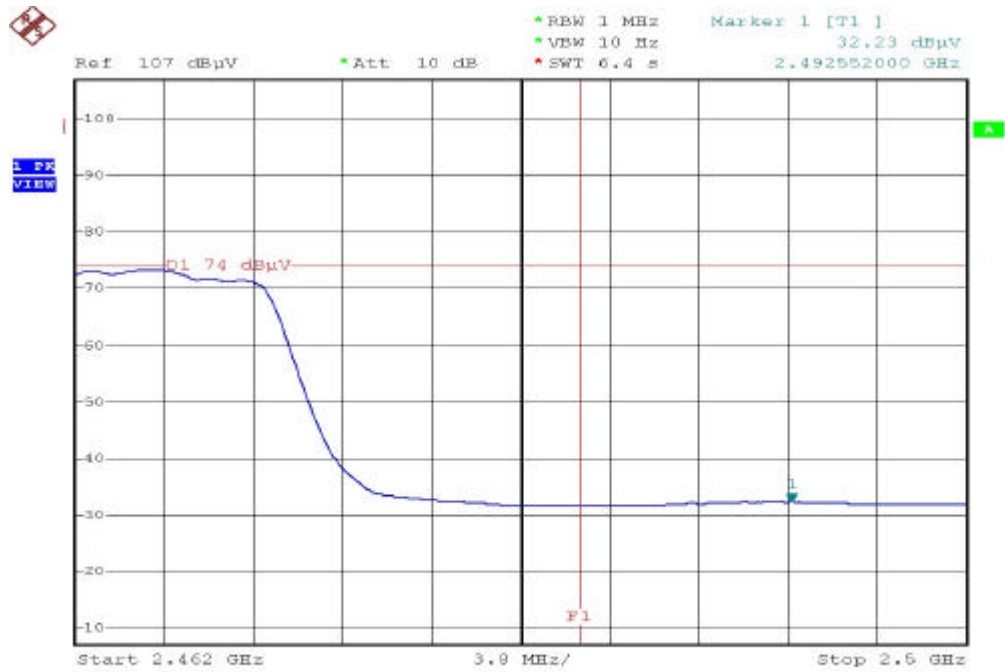


Channel 11

Pol/Phase: Horizontal



Pol/Phase: Vertical



#### 4.7. Power Spectral Density Measurement Data

(1) Modulation Standard: IEEE 802.11b

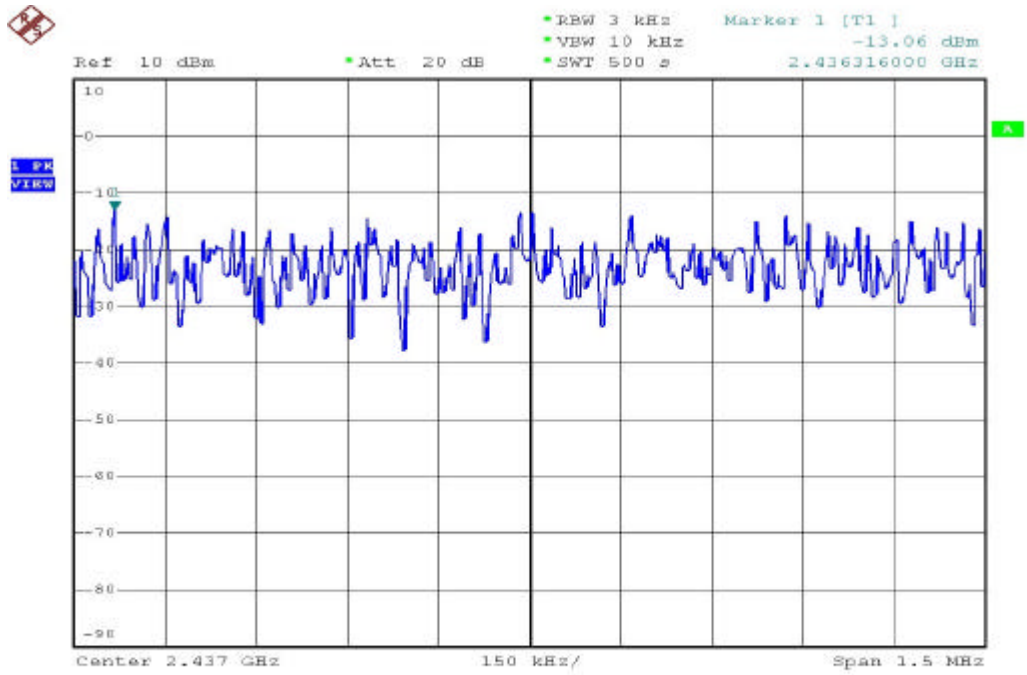
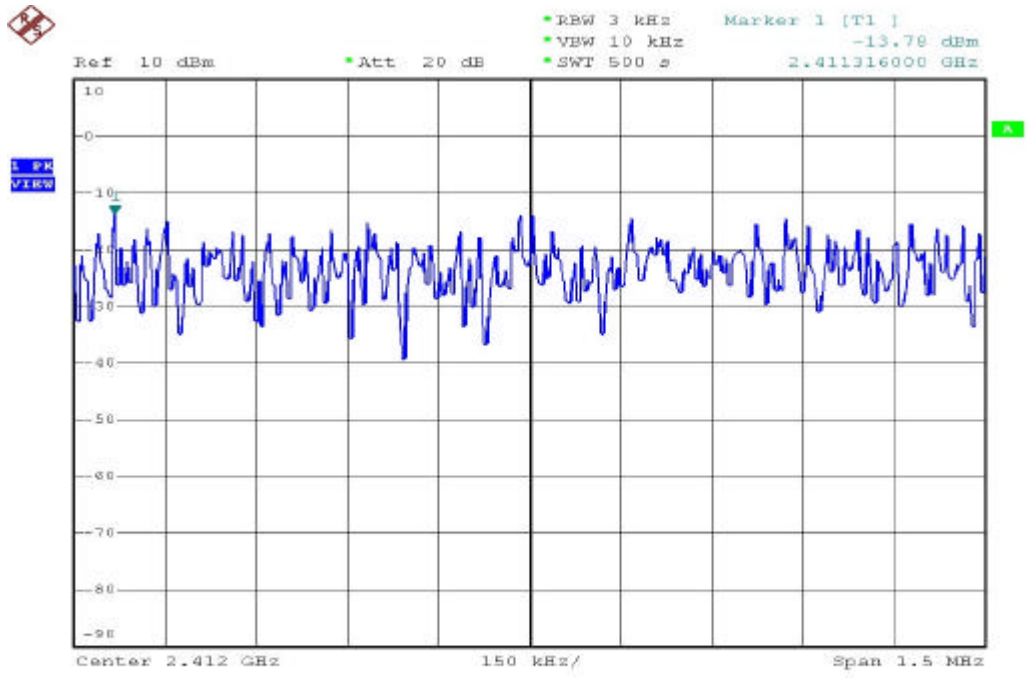
Test Date: Jul. 02, 2004      Temperature: 24      Humidity: 58%

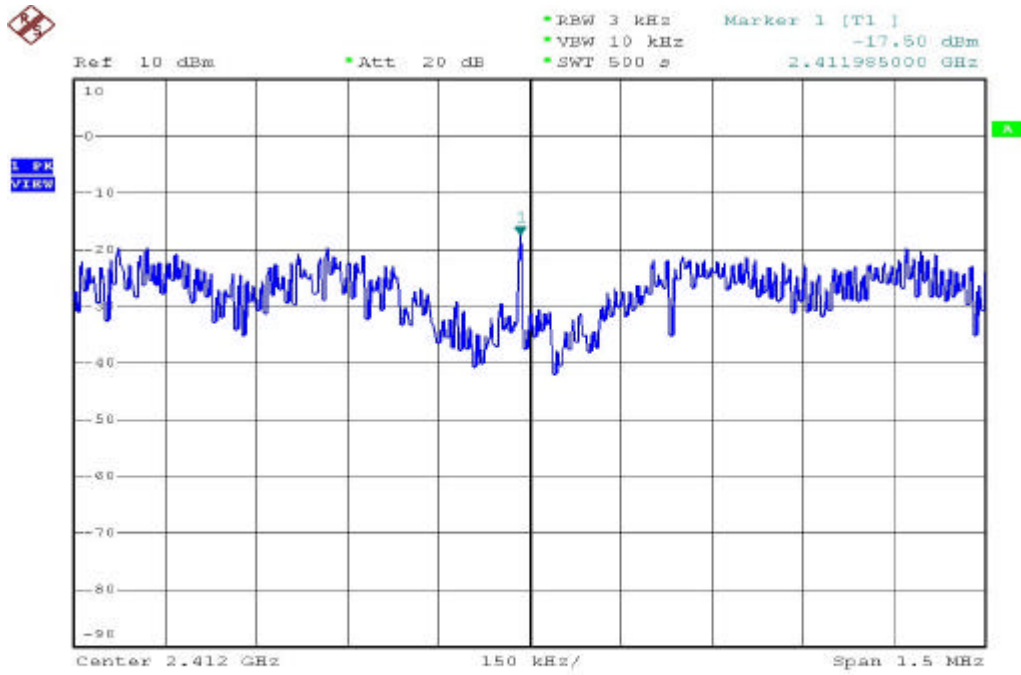
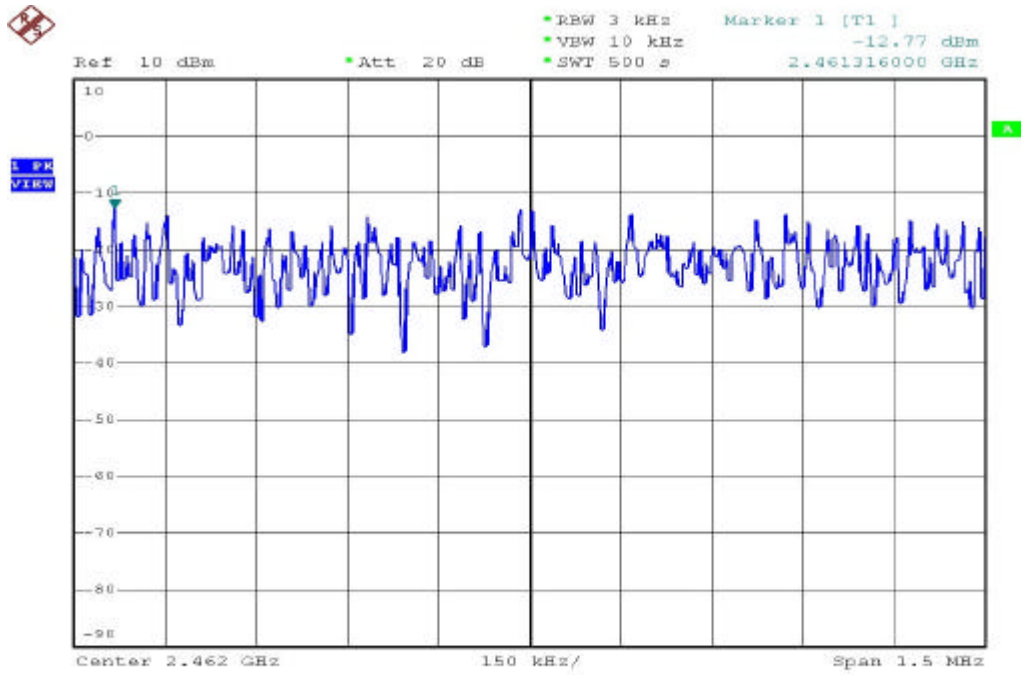
- a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -13.78 dBm
- b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -13.06 dBm
- c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -12.77 dBm

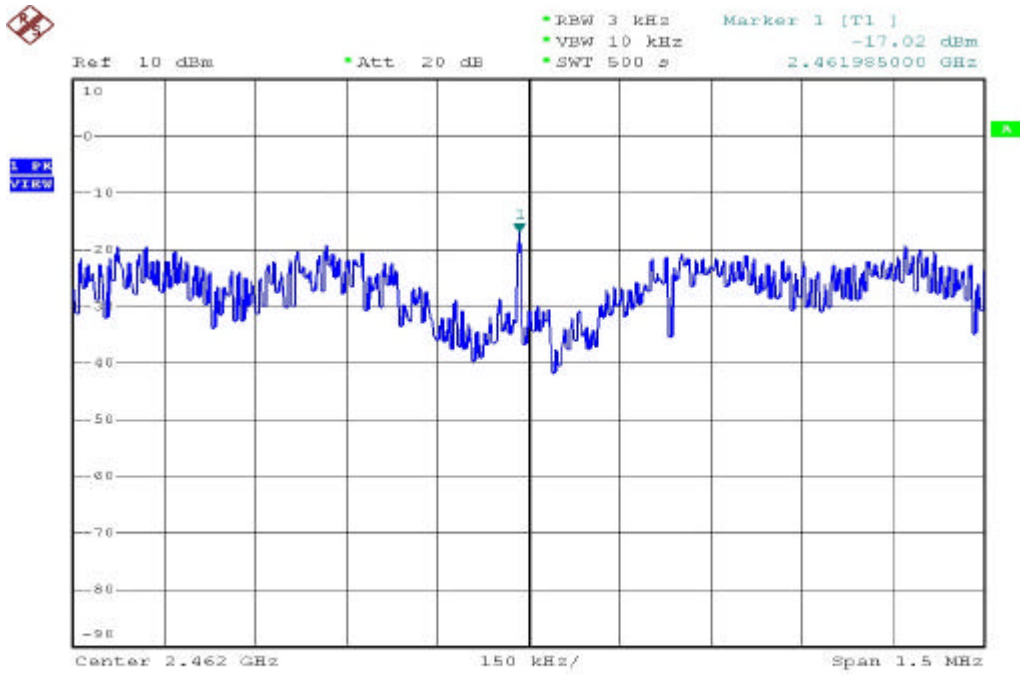
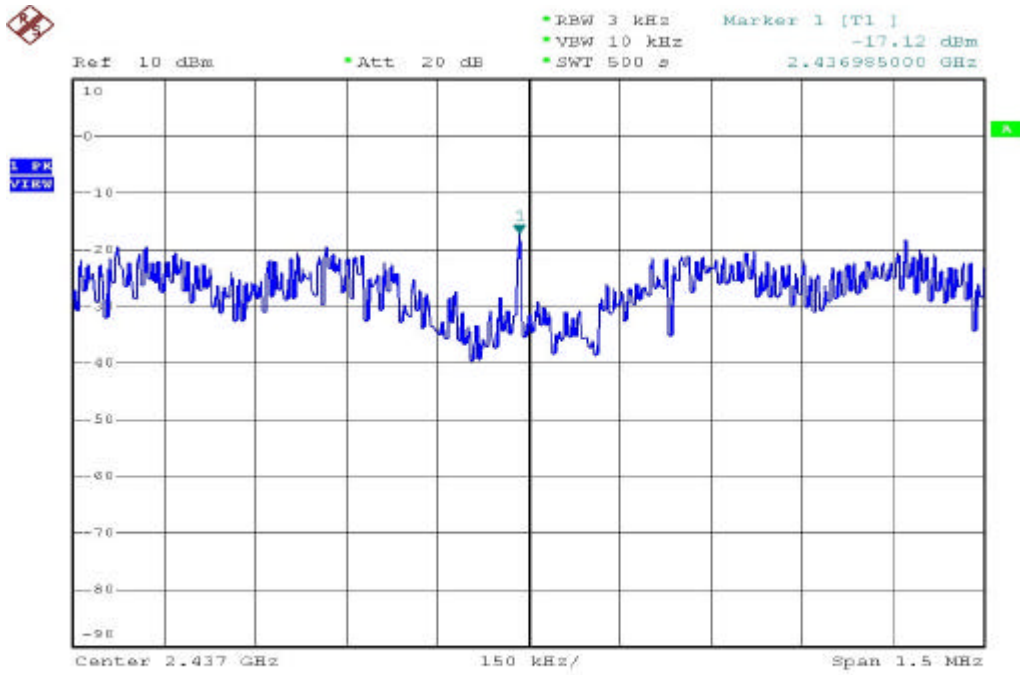
(2) Modulation Standard: IEEE 802.11g

Test Date: Jul. 02, 2004      Temperature: 24      Humidity: 58%

- a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -17.50 dBm
- b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -17.12 dBm
- c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -17.02 dBm







Date: 2.JUL.2004 13:40:42

## 5. List of Measuring Equipment Used

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
1	Bilog Antenna	CBL6111C	Schaffner	2762	2004/11/03
2	Preamplifier	RFP4002	Schaffner	010	2004/11/03
3	Receiver	SCR3501	Schaffner	437	2004/11/03
4	Signal Generator	8648B	HP	3629U00612	2006/02/08
5	Spectrum Analyzer	8594E	HP	3520A01913	2005/01/15
6	Amplifier	8447D	Agilent	2944A10593	2004/10/09
7	Amplifier	8447D	Agilent	2944A10531	2005/06/30
8	Series Power Meter	E4416A	Agilent	GB41292146	2004/11/05
9	Power Sensor	E9327A	Agilent	US40441392	2004/10/06
10	Dipole Antenna	AD-100	COM-Power	721011	2004/12/02
11	Dipole Antenna	AD-100	COM-Power	721010	2004/12/02
12	Spectrum Analyzer	R3131A	Advantest	131000021	2004/11/24
13	Spectrum Analyzer	FSP40	R&S	100047	2004/12/16
14	Preamplifier	8449B	Agilent	3008A01954	2005/01/04
15	Horn Antenna	3115	EMCO	31601	2005/01/13
16	Horn Antenna	3115	EMCO	31589	2005/01/14
17	Horn Antenna	3116	EMCO	31970	2005/01/29
18	Horn Antenna	3116	EMCO	31974	2005/01/29
19	EMI Receiver	8546A	HP	3807A00454	2005/02/12
20	RF Filter Section	85460A	HP	3704A00386	2005/02/12
21	Signal Generator	83640A	HP	2927A00107	2006/03/16
22	Attenuator	8491B	Agilent	50703	2004/12/16
23	Attenuator	8491B	Agilent	50705	2004/12/16
24	Temperature Chamber	TMJ-9712	T Machine	T-12-040111	2005/03/05
25	High Pass Filter	84300-80038	HP	002	N/A
26	High Pass Filter	84300-80038	HP	006	N/A
27	DC Power Supply	GPD-3030	GM	7020936	N/A
28	AC Power Converter	AFC-11005	APC	F103120008	N/A