FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	SerComm Corporation
Address	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.
Equipment	IEEE802.11g Wireless PC card
Model No.	CB801M
FCC ID	P27CB801M
Trade Name	SerComm

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of ***E**xclusive **C**ertification **C**orp.* the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

Contents

CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations

Part 15 Subpart C

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I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was ***passed*** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2003).** The test was carried out on Nov.08, 2004 at *Exclusive Certification Corp.*

Signature

Anson Chou Jan, 07, 2005

Anson Chou / Manager

1. Report of Measurements and Examinations

1.1. List of Measurements and Examinations

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(c)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass

Test by: Jerry Nov. 8. 2004

1.2. Antenna Requirements

1.2.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

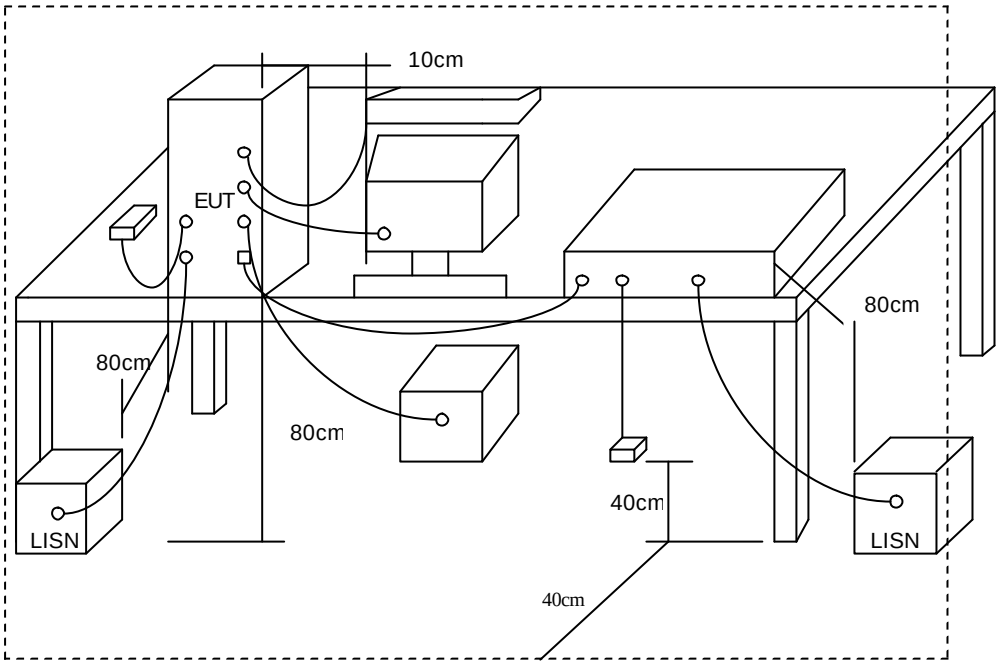
1.3. Test of Conducted Emission

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

1.3.1. Test Procedures

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

1.3.2. Typical Test Setup Layout of Conducted Emission



1.3.3. Conducted Emission Requirement

Except for A digital devices, for equpment that is designed to be connected to the public utility (AC) power line on any frequency voltage that is conducted back onto the AC power line on ant frequency or frequencies within the band 150KHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50 ohms line impeddance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the Radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency (MHz)	**Quasi Peak (dB μ V)**	**Average (dB μ V)**
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

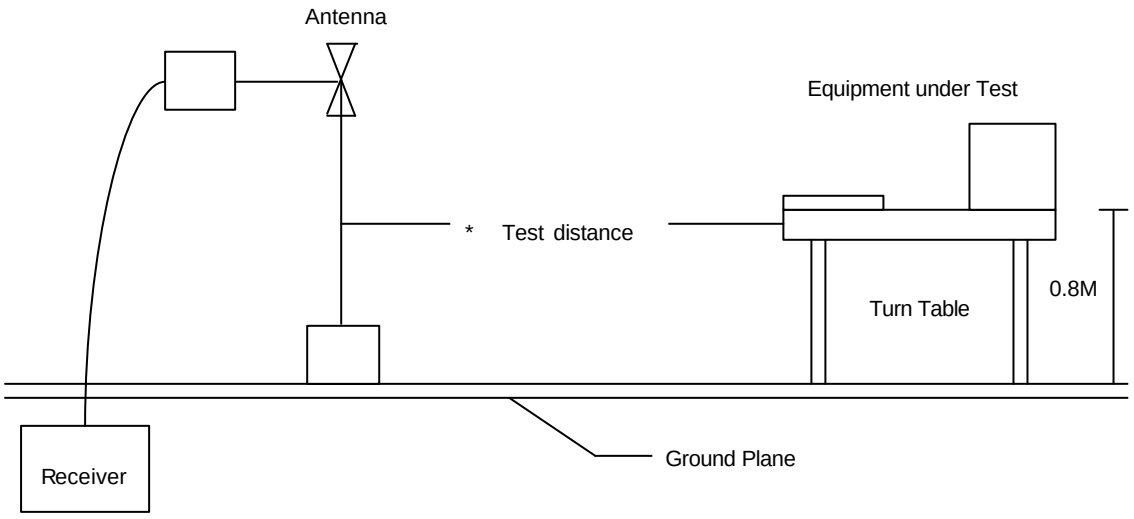
1.4. Test of Radiated Emission

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

1.4.1. Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

1.4.2. Typical Test Setup Layout of Radiated Emission

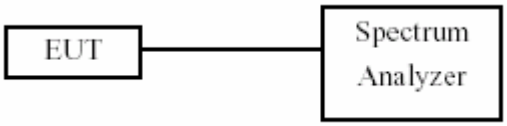


1.5. 6dB Bandwidth

1.5.1. Test Procedure：

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
3. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

1.5.2. Test Setup Layout：

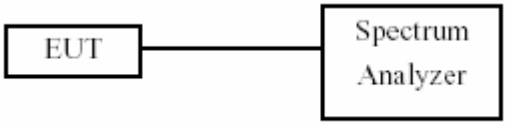


1.6. Maximum Peak Output Power

1.6.1. Test Procedure：

The antenna port（RF output）of the EUT was connected to the input（RF input）of a spectrum analyzer. Power was read directly from the spectrum analyzer and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

1.6.2. Test Setup Layout：



1.7. Band Edges Measurement

1.7.1. Test Procedure：

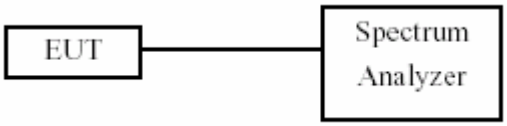
1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 MHz bandwidth from band edge.
3. The band edges was measured and recorded.

1.8. Power Spectral Density

1.8.1. Test Procedure：

1. The transmitter output was connected to spectrum analyzer.
2. The spectrum analyzer' s resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
3. The power spectral density was measured and recorded.
4. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

1.8.2. Test Setup Layout：



1.9. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

1.10. Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1.11. RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

RF Exposure Compliance

1.11.1. Limit For Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

F=frequency in MHz *Plane-wave equivalent power density

1.11.2. MPE Calculations

$$E\ (V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd\ (mW/cm^2) = \frac{E^2}{3770}$$

E=Electric field (V/m)

P=Peak output power (W)

G=Antenna numeric gain (numeric)

d=Separation distance (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 10 W/m². We can change the formula to:

$$d = \sqrt{\frac{30 \times P \times G}{3770}}$$

2. Test Configuration of Equipment under Test

2.1. Test Mode and Test Software

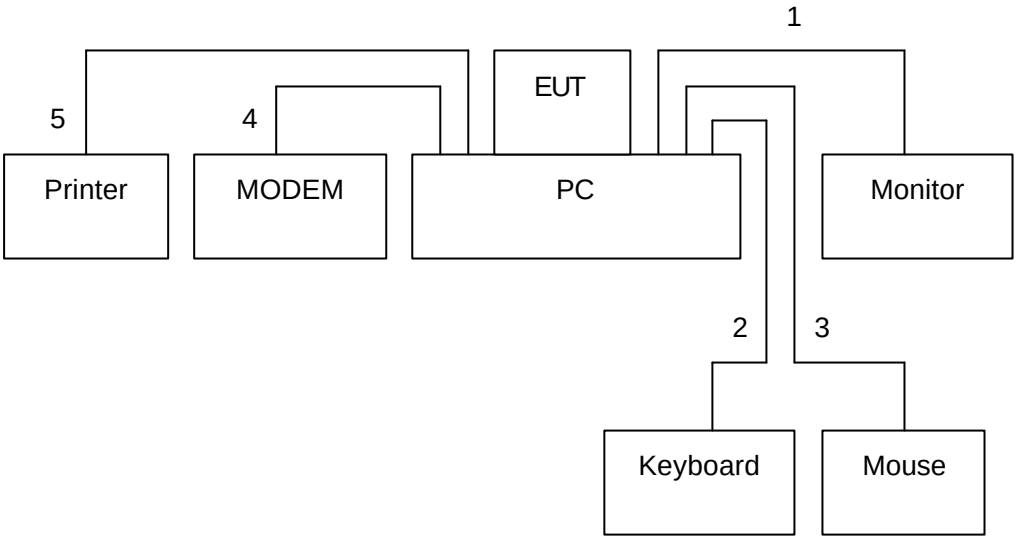
The following test mode and test software was performed for conduction and radiation test:

- 802.11b (CH LO: 2412MHz) • 802.11b (CH MID: 2437MHz) • 802.11b (CH HI: 2462MHz)
- 802.11g (CH LO: 2412MHz) • 802.11g (CH MID: 2437MHz) • 802.11g (CH HI: 2462MHz)
- An executive programs, “Dutapidll.exe” Application under WIN XP.

2.2. Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Unshielding 1.35 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT Shielding 1.6 m
AP Router (Remote Site)	Abocom	ARM-914	Power Cable, Unshielding 1.8 m

2.3. Connection Diagram of Test System



1. The I/O cable is connected from PC to the Monitor.
2. The I/O cable is connected from PC to the Keyboard.
3. The I/O cable is connected from PC to the Mouse.
4. The I/O cable is connected from PC to the MODEM
5. The I/O cable is connected from PC to the Printer.

2.4. RF Module Specifications

Chipset:	Marvell 88W8335
RF Chip:	Marvell 88W8010
Bus Type:	CardBus
Data Rates :	54, 48, 36, 24, 18, 12, 9, and 6 Mbps (802.11g)
	11, 5.5, 2, 1 Mbps (802.11b)
Frequency Band :	2.4GHz to 2.462GHz
Wireless Medium :	DSSS and OFDM
Media Access Protocol:	CSMA/CA
Operating Channels:	1-14(FCC:1-11、ETSI:1-13、Japan:1-13)
Operating Range:	• Indoors: Up to 328 ft (100 meters) • Outdoors: Up to 1312 ft (400 meters)
Receive Sensitivity :	
802.11g	54 Mbps: -70 dBm
	48 Mbps: -72 dBm
	36 Mbps: -77 dBm
	24 Mbps: -80 dBm
	18 Mbps: -82 dBm
	12 Mbps: -85 dBm
	9 Mbps: -86 dBm
	6 Mbps: -88 dBm
802.11b	11 Mbps: -86 dBm
	5.5 Mbps: -89 dBm
	2 Mbps: -91 dBm
	1 Mbps: -91 dBm
Wireless Medium:	DSSS (Direct Sequence Spread Spectrum)
Media Access Protocol:	CSMA/CA
Transmit Power:	
802.11g:	14±2 dBm
802.11b:	16±2 dBm
Security :	64/128-bit WEP WPA—Wi-Fi Protected Access
Standards Conformance:	WPA certified, IEEE 802.11g, IEEE 802.11b
EMI:	FCC, CE
Environmental Range:	
Operating temperature:	0^{o} to 40^{o}C (32^{o} to 104^{o}F)
Operating humidity:	0 to 90% non-condensing
System Requirements	Notebook PC must be running Windows 98SE/ME/XP/ 2000

2.5. History of this test report

ORIGINAL.

3. General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei County 223, Taiwan, R.O.C.
Test Voltage:	AC 110V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

4. Test Result and Data

4.1. Antenna Requirement

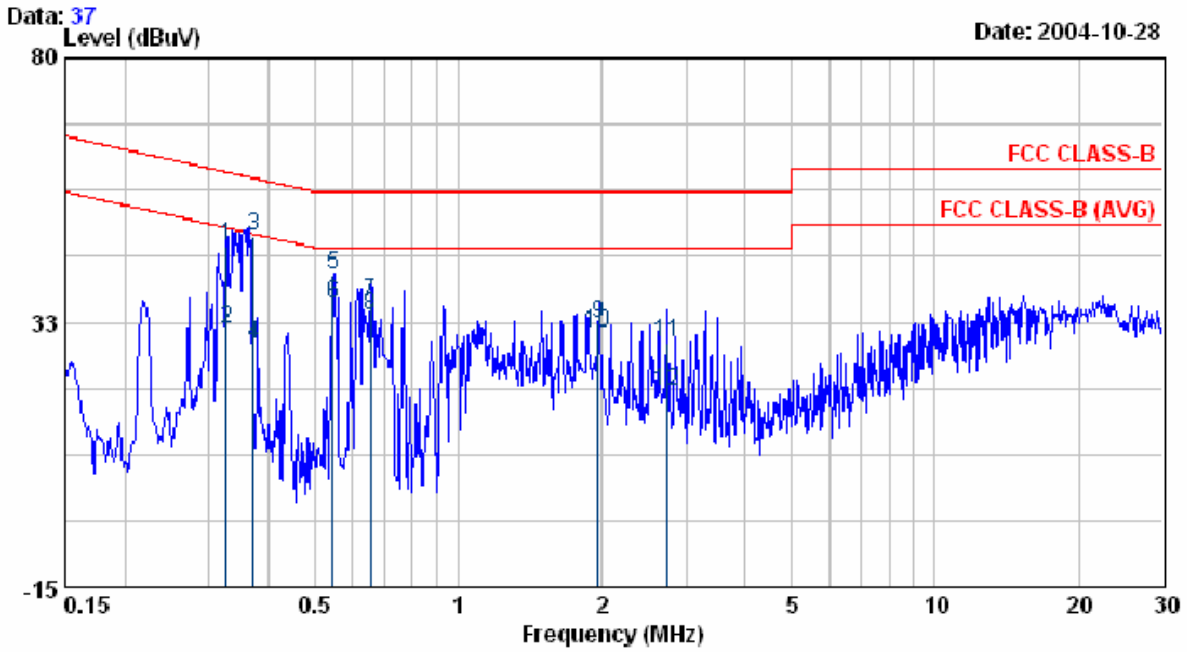
4.1.1. Antenna Construction and Directional Gain

Antenna type: The antenna is designed to be permanently on PCB, No Consideration of replacement

Antenna Gain: 0 dBi.

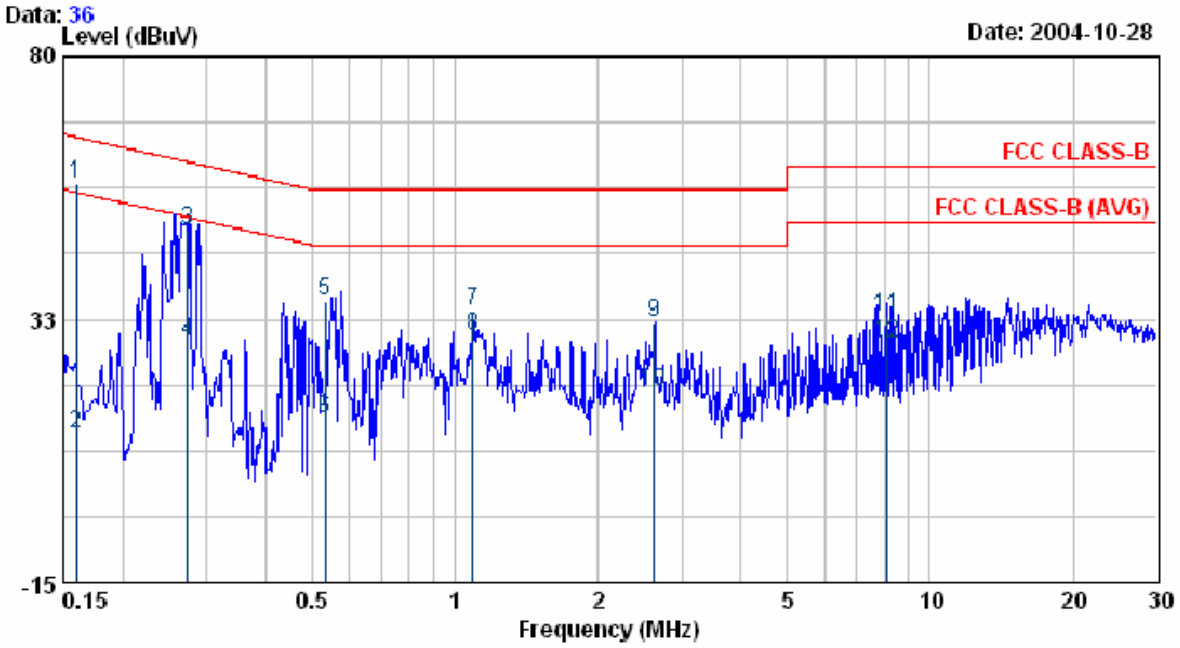
4.2. Test Result of Conducted Emission

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11b CH LO	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



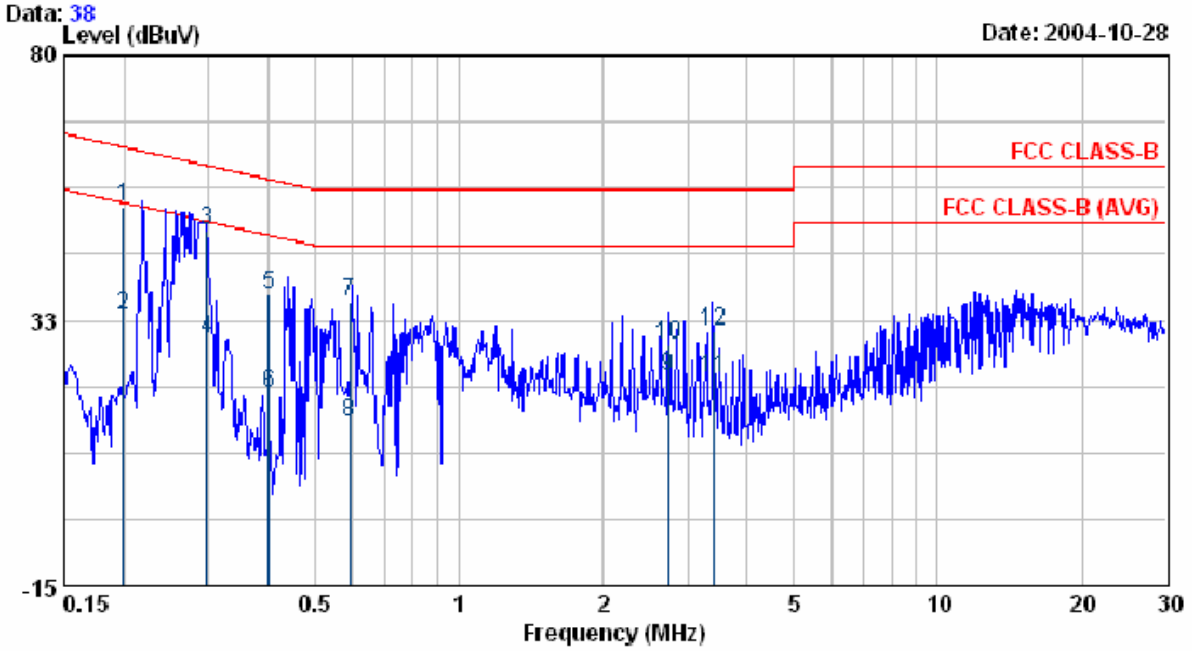
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.327	45.94	0.45	46.39	59.52	-13.14	QP
0.327	30.80	0.45	31.25	49.52	-18.28	AVERAGE
0.373	47.38	0.45	47.83	58.44	-10.61	QP
0.373	27.97	0.45	28.42	48.44	-20.02	AVERAGE
0.545	40.60	0.48	41.08	56.00	-14.92	QP
0.545	35.34	0.48	35.82	46.00	-10.18	AVERAGE
0.656	35.51	0.49	36.00	56.00	-20.00	QP
0.656	33.25	0.49	33.74	46.00	-12.26	AVERAGE
1.967	31.65	0.54	32.19	56.00	-23.81	QP
1.967	30.18	0.54	30.72	46.00	-15.28	AVERAGE
2.732	28.21	0.56	28.77	56.00	-27.23	QP
2.732	19.74	0.56	20.30	46.00	-25.70	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: LINE
Test Mode	: 802.11b CH L0	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



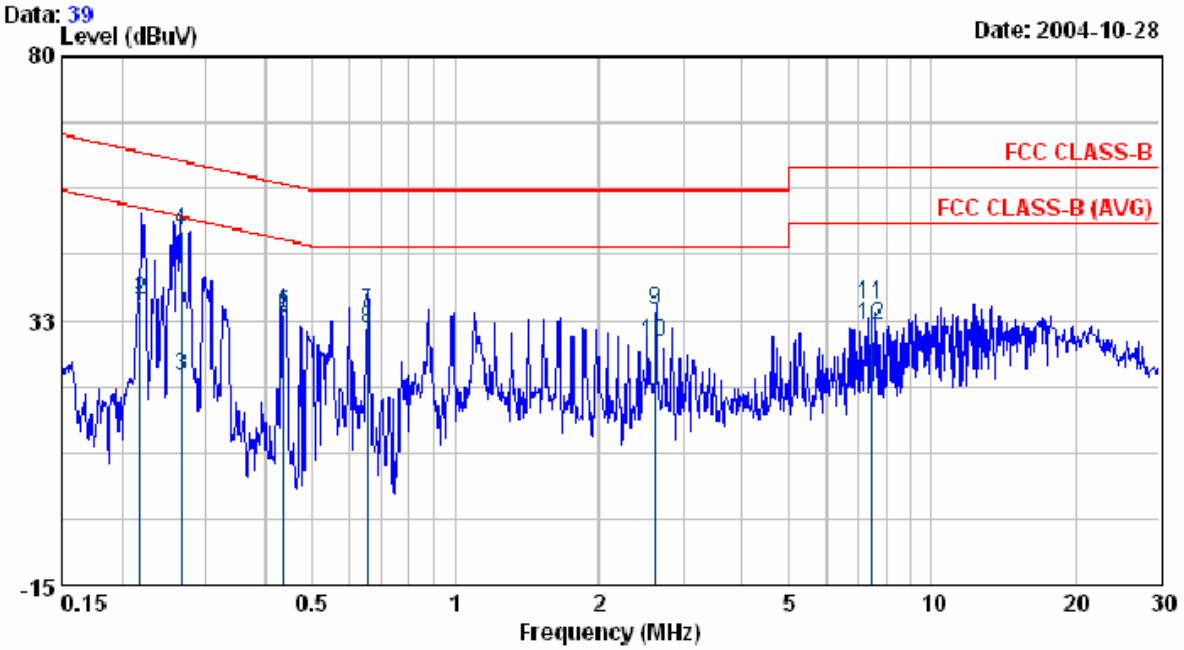
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.160	56.80	0.40	57.20	65.47	-8.27	QP
0.160	11.48	0.40	11.88	55.47	-43.59	AVERAGE
0.274	48.39	0.44	48.83	61.00	-12.17	QP
0.274	27.90	0.44	28.34	51.00	-22.66	AVERAGE
0.532	35.45	0.48	35.93	56.00	-20.07	QP
0.532	14.24	0.48	14.72	46.00	-31.28	AVERAGE
1.093	33.42	0.51	33.93	56.00	-22.07	QP
1.093	29.08	0.51	29.59	46.00	-16.41	AVERAGE
2.618	31.30	0.55	31.85	56.00	-24.15	QP
2.618	18.89	0.55	19.44	46.00	-26.56	AVERAGE
8.088	32.55	0.61	33.16	60.00	-26.84	QP
8.088	27.40	0.61	28.01	50.00	-21.99	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11b CH MID	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



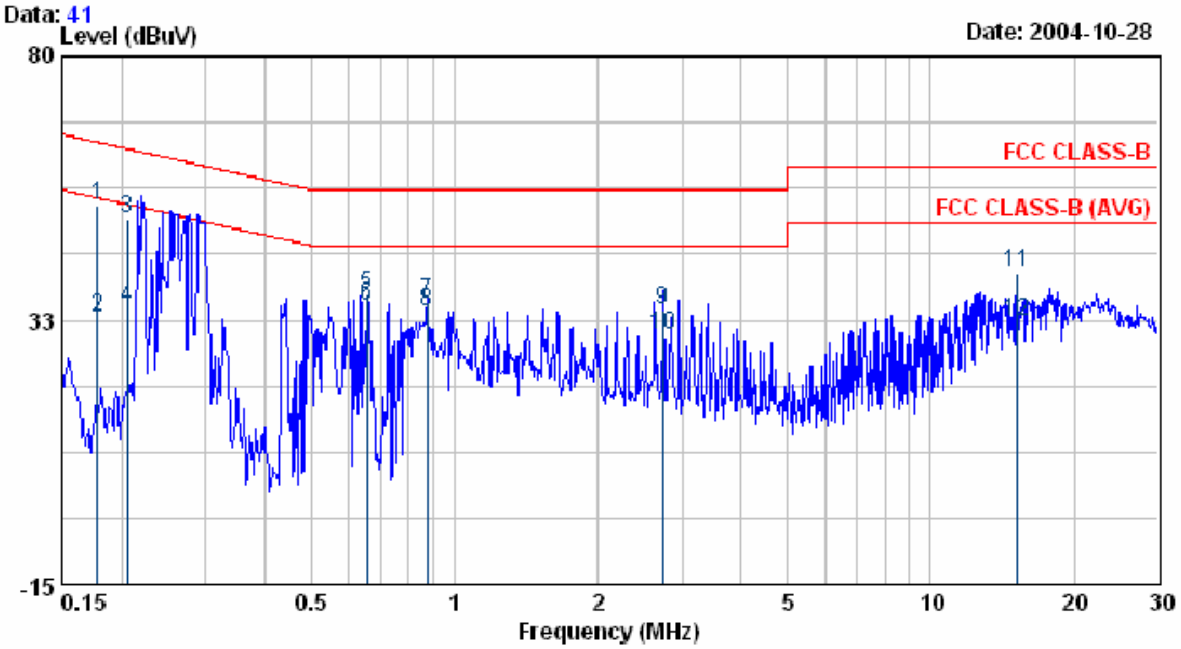
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.199	52.53	0.42	52.95	63.66	-10.71	QP
0.199	33.07	0.42	33.49	53.66	-20.17	AVERAGE
0.298	48.37	0.44	48.81	60.30	-11.48	QP
0.298	28.80	0.44	29.24	50.30	-21.05	AVERAGE
0.401	36.67	0.46	37.13	57.84	-20.71	QP
0.401	19.02	0.46	19.48	47.84	-28.36	AVERAGE
0.592	35.39	0.48	35.87	56.00	-20.13	QP
0.592	13.64	0.48	14.12	46.00	-31.88	AVERAGE
2.734	22.12	0.56	22.68	46.00	-23.32	AVERAGE
2.734	27.64	0.56	28.20	56.00	-27.80	QP
3.393	21.78	0.57	22.35	46.00	-23.65	AVERAGE
3.393	30.16	0.57	30.73	56.00	-25.27	QP

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: LINE
Test Mode	: 802.11b CH MID	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



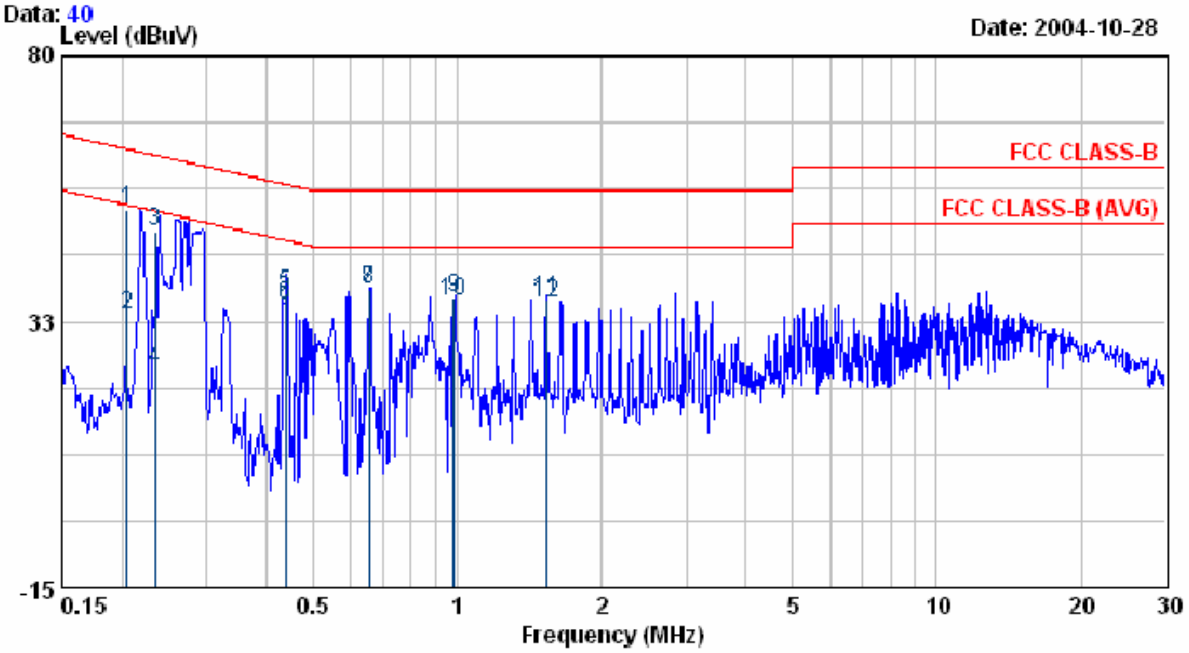
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.218	34.77	0.42	35.19	52.89	-17.69	AVERAGE
0.218	35.69	0.42	36.11	62.89	-26.77	QP
0.267	22.27	0.43	22.70	51.20	-28.50	AVERAGE
0.267	48.38	0.43	48.81	61.20	-12.39	QP
0.436	33.09	0.46	33.55	57.13	-23.58	QP
0.436	32.73	0.46	33.19	47.13	-13.94	AVERAGE
0.656	33.74	0.49	34.23	56.00	-21.77	QP
0.656	30.47	0.49	30.96	46.00	-15.04	AVERAGE
2.625	33.74	0.55	34.29	56.00	-21.71	QP
2.625	27.90	0.55	28.45	46.00	-17.55	AVERAGE
7.432	34.83	0.60	35.43	60.00	-24.57	QP
7.432	31.16	0.60	31.76	50.00	-18.24	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11b CH HI	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



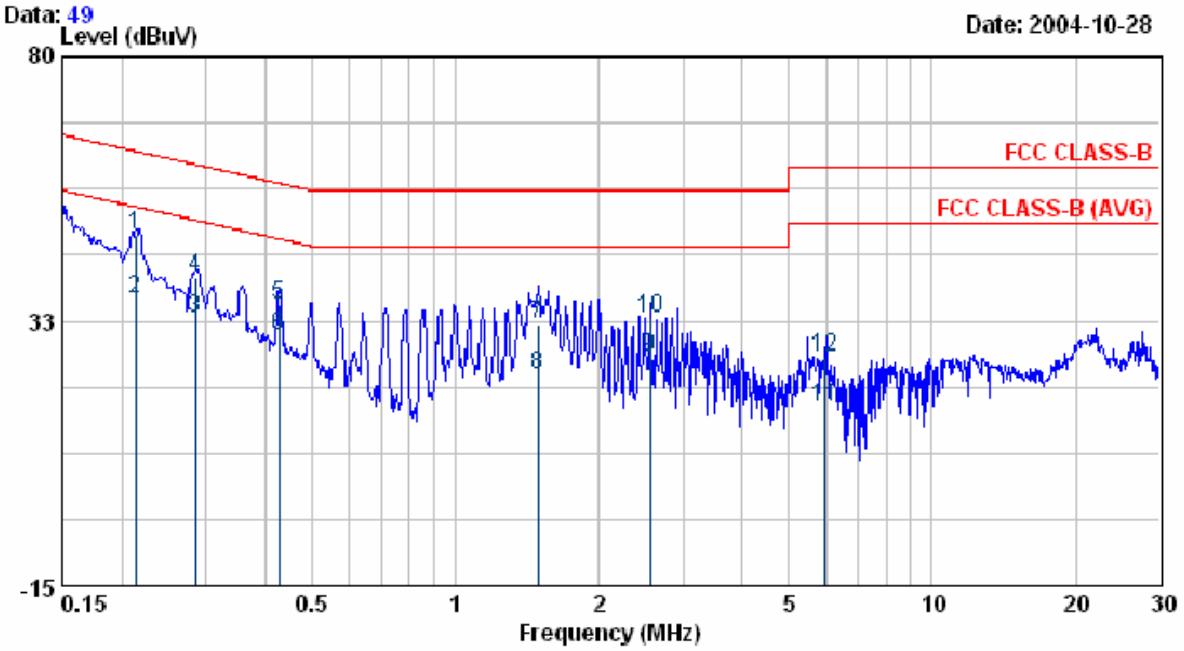
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.178	52.95	0.41	53.36	64.60	-11.24	QP
0.178	32.65	0.41	33.06	54.60	-21.54	AVERAGE
0.206	50.48	0.42	50.90	63.39	-12.49	QP
0.206	34.50	0.42	34.92	53.39	-18.47	AVERAGE
0.656	36.81	0.49	37.30	56.00	-18.70	QP
0.656	34.63	0.49	35.12	46.00	-10.88	AVERAGE
0.876	35.20	0.50	35.70	56.00	-20.30	QP
0.876	33.40	0.50	33.90	46.00	-12.10	AVERAGE
2.734	33.72	0.56	34.28	56.00	-21.72	QP
2.734	29.26	0.56	29.82	46.00	-16.18	AVERAGE
15.196	40.22	0.76	40.98	60.00	-19.02	QP
15.196	31.47	0.76	32.23	50.00	-17.77	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: LINE
Test Mode	: 802.11b CH HI	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



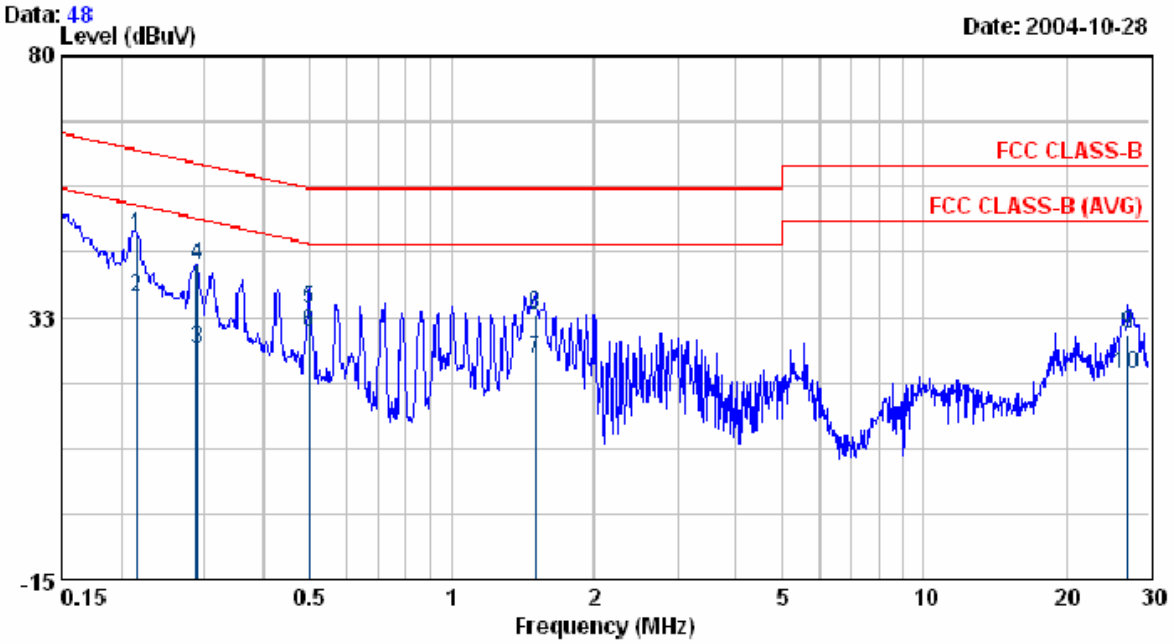
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.205	52.11	0.42	52.53	63.42	-10.89	QP
0.205	33.39	0.42	33.81	53.42	-19.61	AVERAGE
0.234	48.33	0.43	48.76	62.30	-13.55	QP
0.234	23.57	0.43	24.00	52.30	-28.31	AVERAGE
0.437	37.22	0.46	37.68	57.11	-19.43	QP
0.437	34.96	0.46	35.42	47.11	-11.69	AVERAGE
0.656	37.84	0.49	38.33	56.00	-17.67	QP
0.656	37.61	0.49	38.10	46.00	-7.90	AVERAGE
0.983	36.23	0.51	36.74	56.00	-19.26	QP
0.983	35.50	0.51	36.01	46.00	-9.99	AVERAGE
1.531	35.94	0.53	36.47	56.00	-19.53	QP
1.531	35.27	0.53	35.80	46.00	-10.20	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g CH L0	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



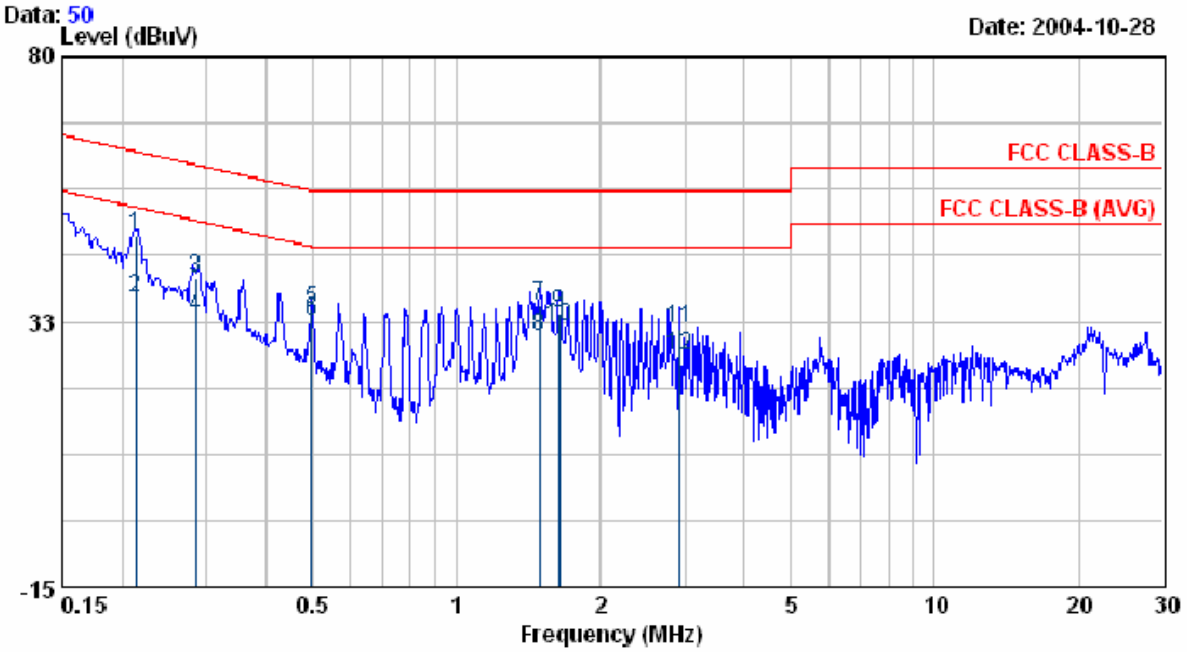
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.213	47.58	0.42	48.00	63.08	-15.07	QP
0.213	36.20	0.42	36.62	53.08	-16.45	AVERAGE
0.285	32.50	0.44	32.94	50.67	-17.74	AVERAGE
0.285	39.91	0.44	40.35	60.67	-20.33	QP
0.426	34.85	0.46	35.31	57.33	-22.01	QP
0.426	29.30	0.46	29.76	47.33	-17.56	AVERAGE
1.487	31.43	0.53	31.96	56.00	-24.04	QP
1.487	22.47	0.53	23.00	46.00	-23.00	AVERAGE
2.559	25.49	0.55	26.04	46.00	-19.96	AVERAGE
2.559	32.43	0.55	32.98	56.00	-23.02	QP
5.977	16.29	0.64	16.93	50.00	-33.07	AVERAGE
5.977	25.57	0.64	26.21	60.00	-33.79	QP

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: LINE
Test Mode	: 802.11g CH L0	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



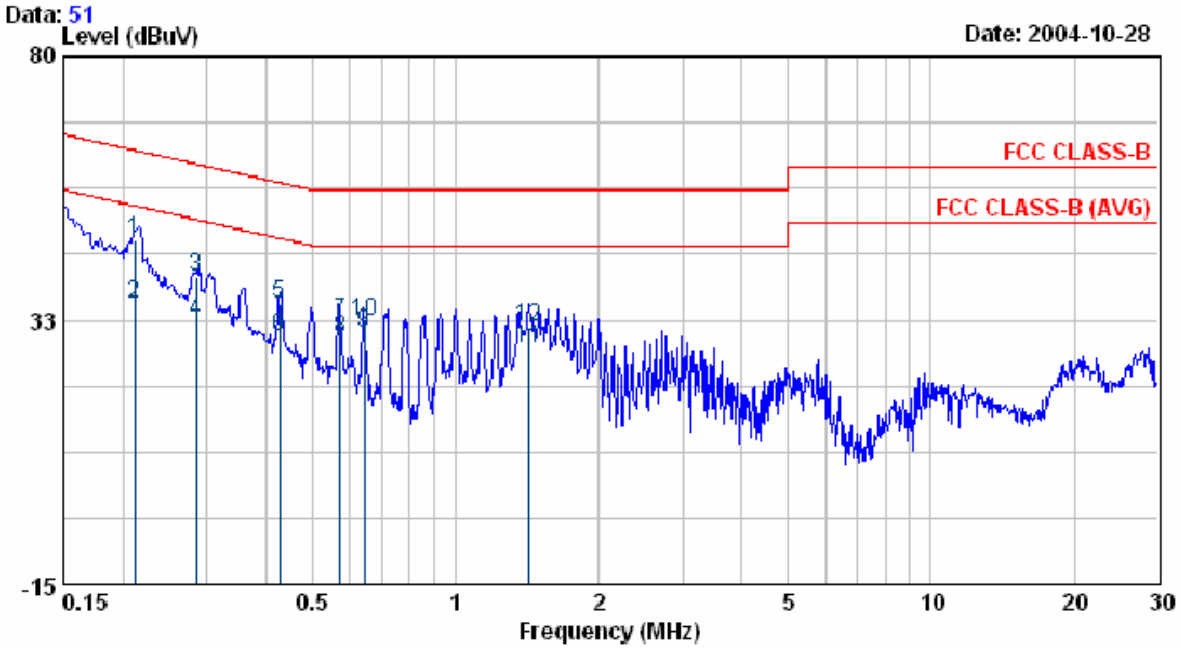
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.216	46.80	0.42	47.22	62.98	-15.75	QP
0.216	35.70	0.42	36.12	52.98	-16.85	AVERAGE
0.289	26.20	0.44	26.64	50.54	-23.91	AVERAGE
0.289	41.70	0.44	42.14	60.54	-18.41	QP
0.499	33.60	0.47	34.07	56.01	-21.94	QP
0.499	29.31	0.47	29.78	46.01	-16.23	AVERAGE
1.503	24.39	0.53	24.92	46.00	-21.08	AVERAGE
1.503	32.50	0.53	33.03	56.00	-22.97	QP
26.837	28.35	1.25	29.60	60.00	-30.40	QP
26.837	21.00	1.25	22.25	50.00	-27.75	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g CH MID	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



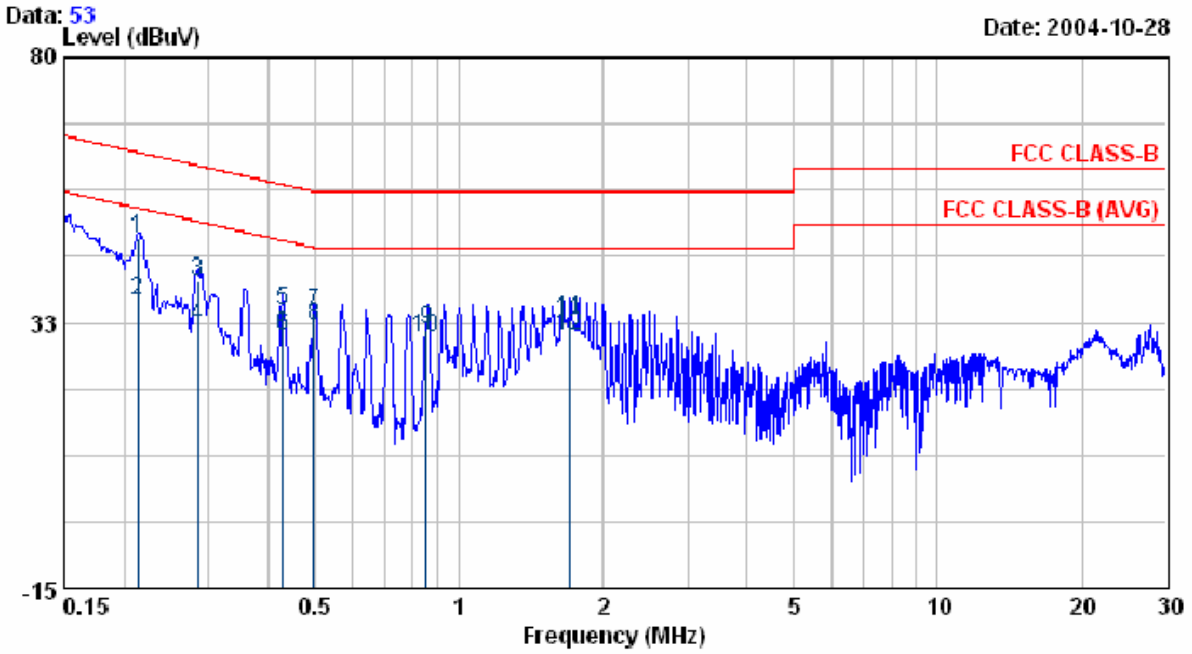
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.214	47.59	0.42	48.01	63.07	-15.06	QP
0.214	36.57	0.42	36.99	53.07	-16.08	AVERAGE
0.285	39.84	0.44	40.28	60.67	-20.39	QP
0.285	32.90	0.44	33.34	50.67	-17.33	AVERAGE
0.497	34.18	0.47	34.65	56.04	-21.39	QP
0.497	32.19	0.47	32.66	46.04	-13.38	AVERAGE
1.493	34.85	0.53	35.38	56.00	-20.62	QP
1.493	29.52	0.53	30.05	46.00	-15.95	AVERAGE
1.635	33.37	0.53	33.90	56.00	-22.10	QP
1.635	31.09	0.53	31.62	46.00	-14.38	AVERAGE
2.915	30.58	0.56	31.14	56.00	-24.86	QP
2.915	25.79	0.56	26.35	46.00	-19.65	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: LINE
Test Mode	: 802.11g CH MID	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



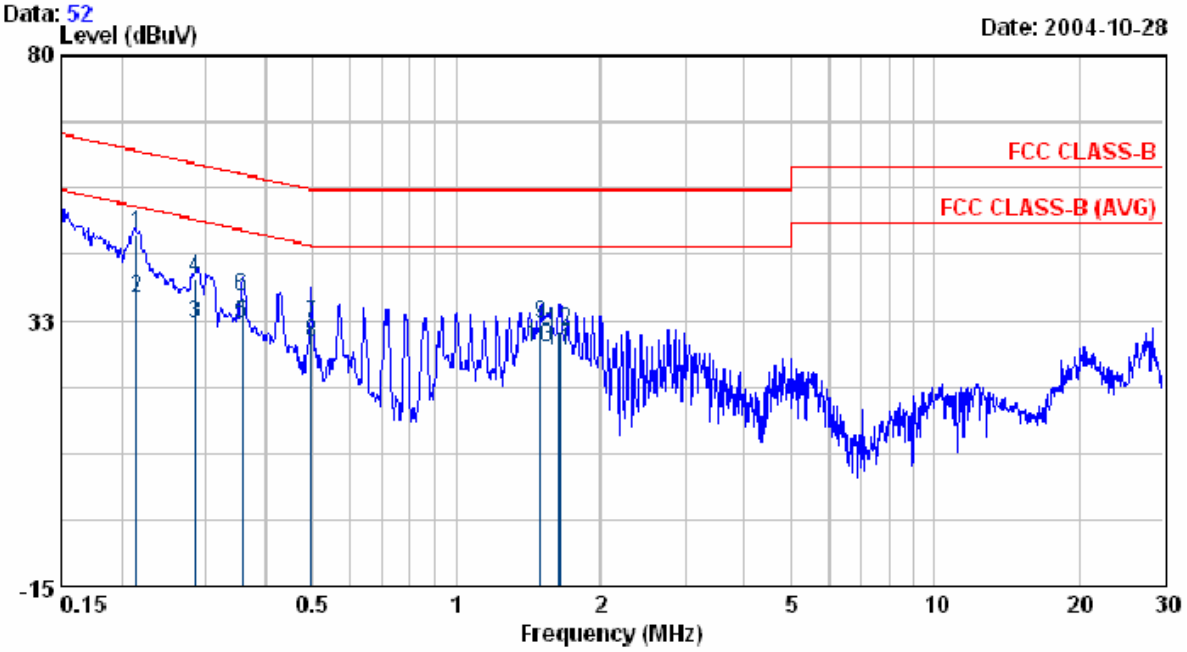
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.212	46.67	0.42	47.09	63.13	-16.04	QP
0.212	35.13	0.42	35.55	53.13	-17.58	AVERAGE
0.285	39.80	0.44	40.24	60.68	-20.44	QP
0.285	31.94	0.44	32.38	50.68	-18.30	AVERAGE
0.426	35.01	0.46	35.47	57.32	-21.85	QP
0.426	29.04	0.46	29.50	47.32	-17.82	AVERAGE
0.572	31.86	0.48	32.34	56.00	-23.66	QP
0.572	28.76	0.48	29.24	46.00	-16.76	AVERAGE
0.642	29.66	0.49	30.15	46.00	-15.85	AVERAGE
0.642	31.78	0.49	32.27	56.00	-23.73	QP
1.425	26.97	0.53	27.50	46.00	-18.50	AVERAGE
1.425	30.90	0.53	31.43	56.00	-24.57	QP

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g CH HI	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.214	47.13	0.42	47.55	63.05	-15.50	QP
0.214	36.00	0.42	36.42	53.05	-16.63	AVERAGE
0.285	39.49	0.44	39.93	60.66	-20.73	QP
0.285	31.52	0.44	31.96	50.66	-18.70	AVERAGE
0.428	34.35	0.46	34.81	57.30	-22.48	QP
0.428	29.73	0.46	30.19	47.30	-17.10	AVERAGE
0.498	34.03	0.47	34.50	56.03	-21.53	QP
0.498	31.68	0.47	32.15	46.03	-13.88	AVERAGE
0.856	30.81	0.50	31.31	56.00	-24.69	QP
0.856	29.37	0.50	29.87	46.00	-16.13	AVERAGE
1.709	32.48	0.53	33.02	56.00	-22.99	QP
1.709	29.85	0.53	30.39	46.00	-15.62	AVERAGE

EUT	: CB801M		
Power	: 110V 60Hz(for PC)	Pol/Phase	: LINE
Test Mode	: 802.11g CH HI	Temperature	: 26 ℃
Memo	:	Humidity	: 63 %



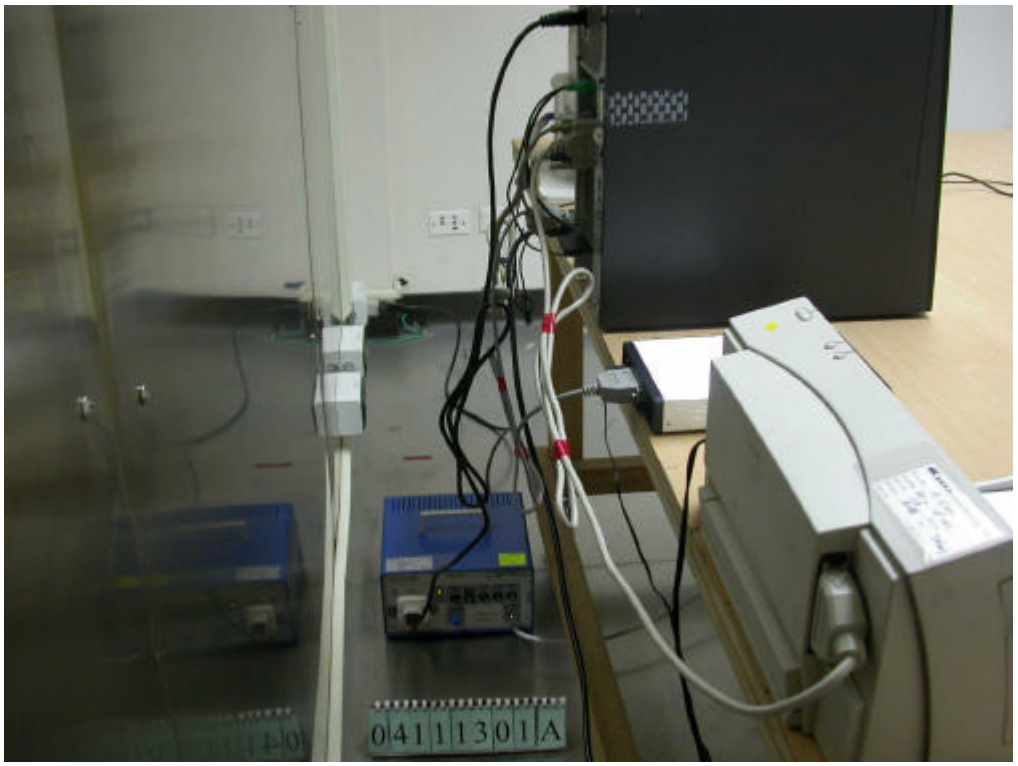
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.214	47.48	0.42	47.90	63.04	-15.14	QP
0.214	36.02	0.42	36.44	53.04	-16.60	AVERAGE
0.286	31.52	0.44	31.96	50.65	-18.69	AVERAGE
0.286	39.54	0.44	39.98	60.65	-20.67	QP
0.356	31.47	0.45	31.92	48.82	-16.90	AVERAGE
0.356	36.37	0.45	36.82	58.82	-22.00	QP
0.498	31.59	0.47	32.06	56.04	-23.98	QP
0.498	28.08	0.47	28.55	46.04	-17.49	AVERAGE
1.497	31.29	0.53	31.82	56.00	-24.18	QP
1.497	27.31	0.53	27.84	46.00	-18.16	AVERAGE
1.639	26.47	0.53	27.00	46.00	-19.00	AVERAGE
1.639	30.11	0.53	30.64	56.00	-25.36	QP

Test by: Carol OTC. >8, >004

4.2.1. Photographs of Conducted Emission Test

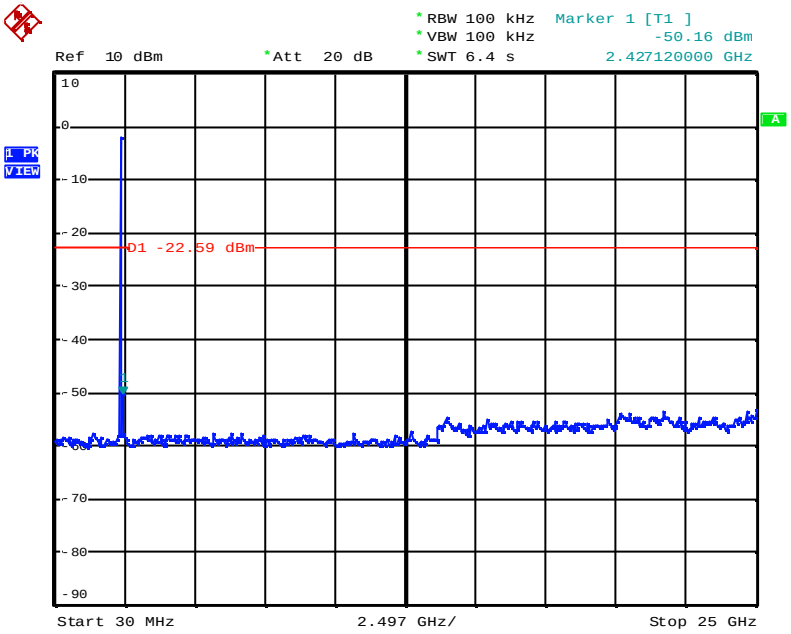
FRONT VIEW

REAR VIEW

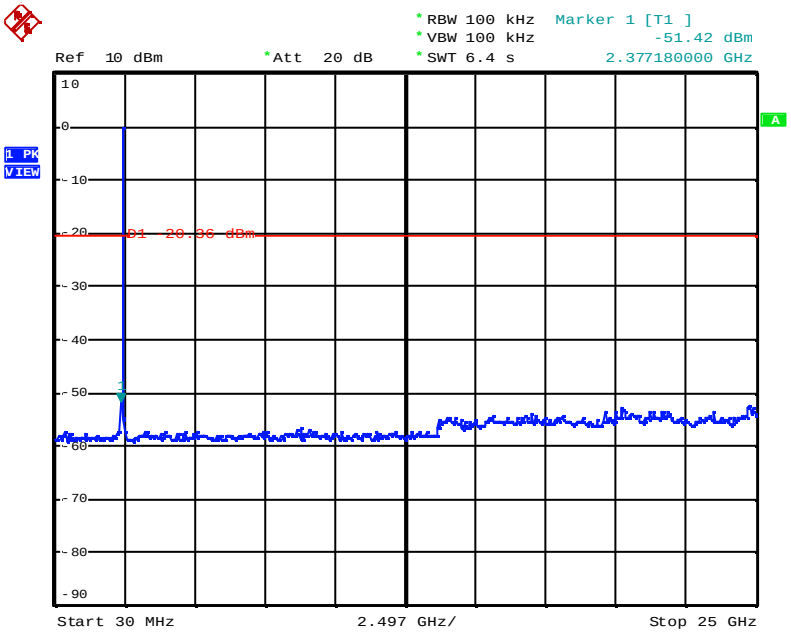


4.3. RF Portion

4.3.1. Test Result of Conducted Emission



Date: 8.NOV.2004 14:21:54



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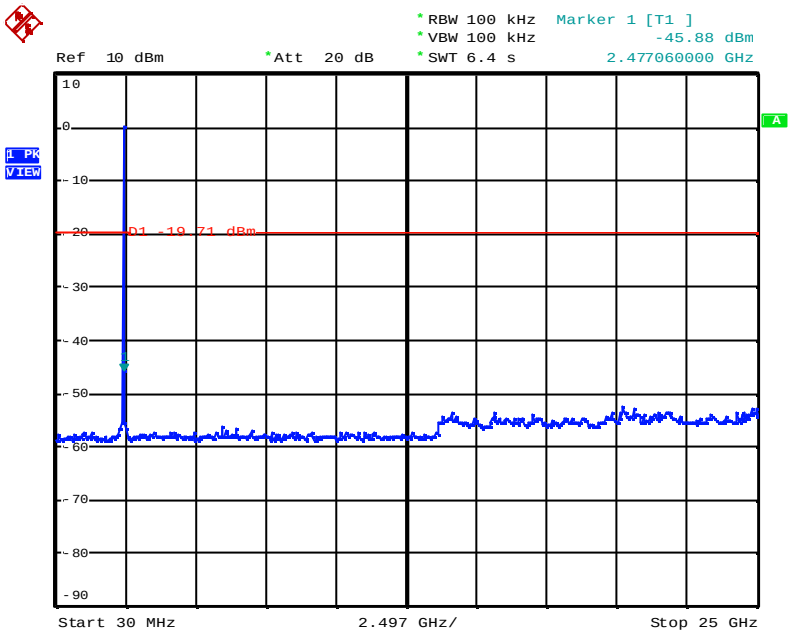

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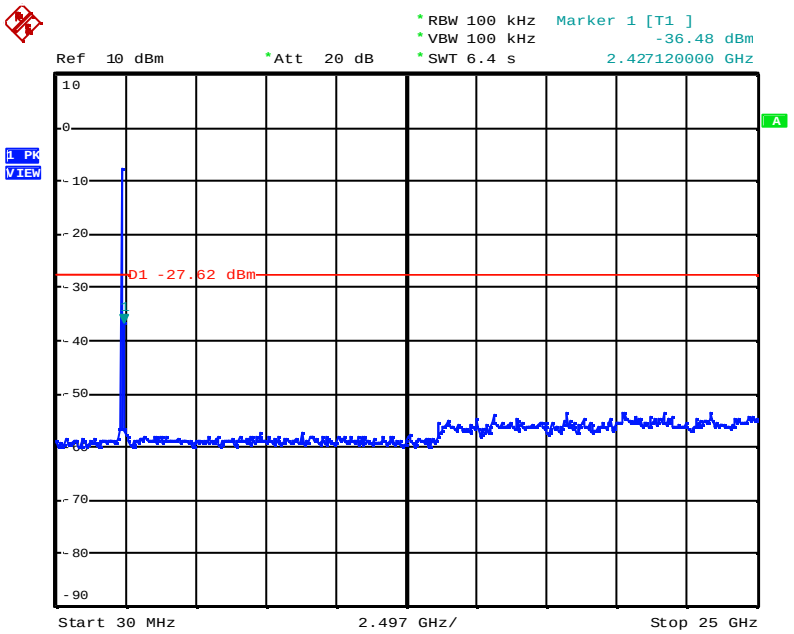

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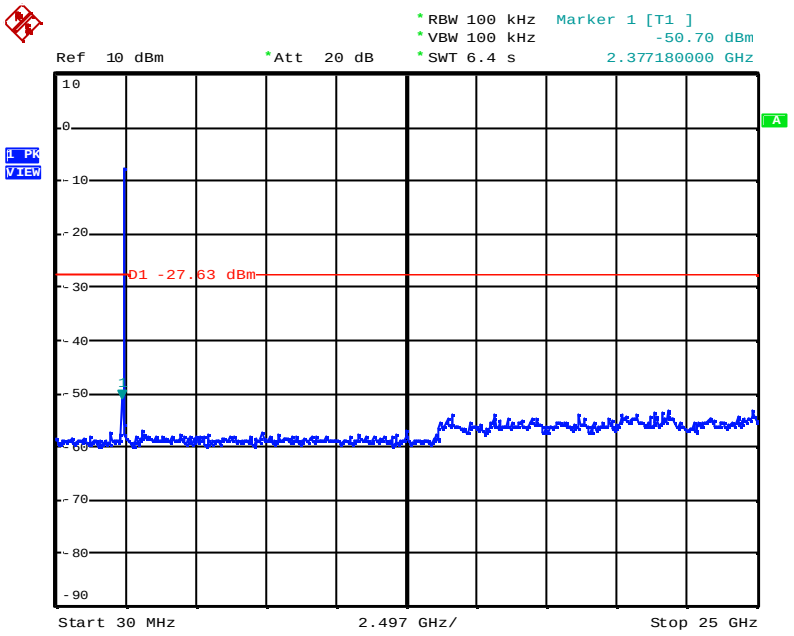

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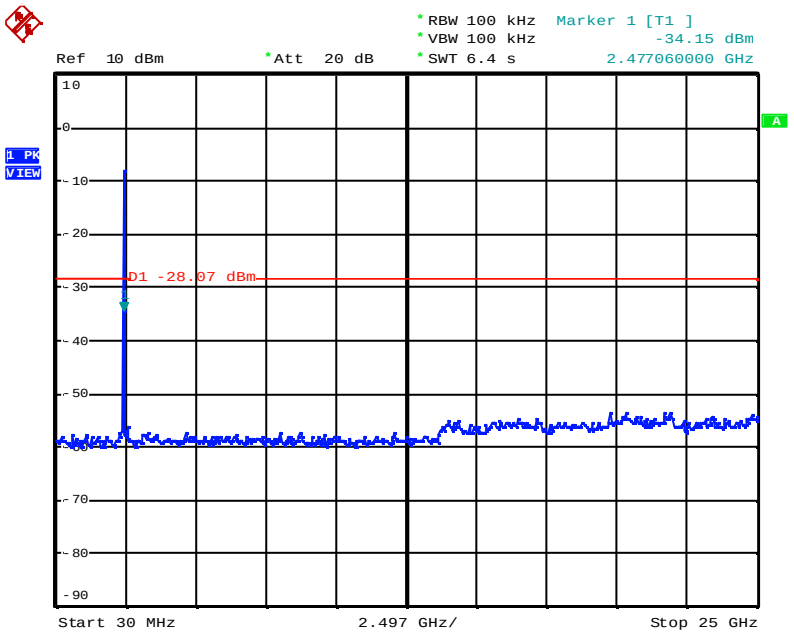


Date: 8.NOV.2004 14:49:51

4.3.2. Test Result of Radiated Emission

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel LO

Test Date: Oct. 26, 2004 Temperature: 24℃ Humidity: 64%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
929.19	H	37.35	3.87	41.22	46	-4.78	Peak	236	1.0

b) Emission frequencies above 1 GHz Channel LO

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1819	H	56.16	-3.00	53.13	74	-20.87	Peak	230	1.0
1819	H	43.45	-3.00	40.45	54	-13.55	Ave	230	1.0
1845	V	51.75	-3.48	48.27	54	-5.73	Ave	220	1.0
4823	V	54.14	6.46	60.60	74	-13.40	Peak	200	1.5
4823	V	38.74	6.48	45.22	54	-8.78	Ave	196	1.5

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Peak detection at frequency below 1GHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel MID

Test Date: Oct. 26, 2004 Temperature:24℃ Humidity: 64%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
929.19	H	36.44	3.87	40.31	46	-5.69	Peak	224	1.0

b) Emission frequencies above 1 GHz Channel MID

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1845	V	54.12	-3.48	50.64	54	-3.36	Ave	225	1.0
4872	V	52.61	6.63	59.23	74	-14.77	Peak	195	1.5
4872	V	.38.89	6.64	45.54	54	-8.46	Peak	195	1.5

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Peak detection at frequency below 1GHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel HI

Test Date: Oct. 26, 2004 Temperature: 24℃ Humidity: 64%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
934.04	H	36.22	3.94	40.16	46	-5.84	Peak	230	1.0

b) Emission frequencies above 1 GHz Channel HI

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1845.0	V	52.07	-3.48	48.59	54	-5.41	Ave	232	1.0
4922.8	V	52.11	6.80	58.91	74	-15.09	Peak	189	1.5
4922.8	V	39.15	6.81	45.96	54	-8.04	Ave	192	1.5

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Peak detection at frequency below 1GHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel LO

Test Date: Oct. 26, 2004 Temperature: 24℃ Humidity: 64%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
929.19	H	36.18	3.87	40.05	46	-5.95	Peak	240	1.0

b) Emission frequencies above 1 GHz Channel LO

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1851.5	H	53.36	-2.81	50.56	54	-3.44	Ave	240	1.0
1845.0	V	55.56	-3.48	52.08	54	-1.92	Ave	236	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Peak detection at frequency below 1GHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel MID

Test Date: Oct. 26, 2004 Temperature: 24℃ Humidity:64%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
934.04	H	36.56	3.94	40.50	46	-5.5	Peak	240	1.0

b) Emission frequencies above 1 GHz Channel MID

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1819	V	55.88	-3.00	52.88	54	-1.12	Ave	236	1.0
1845	V	52.55	-3.48	49.07	54	-4.93	Ave	230	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Peak detection at frequency below 1GHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel HI

Test Date: Oct. 26, 2004 Temperature: 24℃ Humidity: 64%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
934.04	H	36.10	3.94	40.04	46	-5.96	Peak	235	1.0
805.03	V	40.94	1.13	42.07	46	-3.93	Peak	196	1.0

b) Emission frequencies above 1 GHz Channel HI

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1845	V	52.08	-3.48	48.6	54	-5.4	Ave	235	1.0

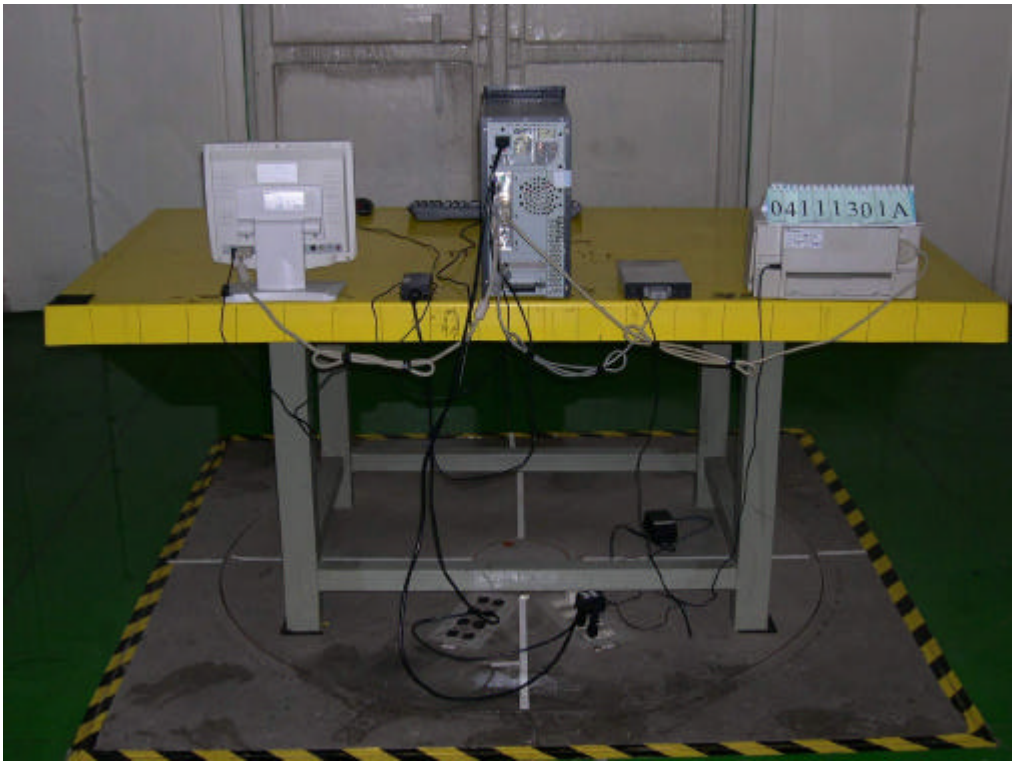
Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Peak detection at frequency below 1GHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

Photographs of Radiated Emission Test

FRONT VIEW

REAR VIEW



4.4. 6dB Bandwidth Measurement Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

a) Channel 01: 6dB Emission Bandwidth is 8.6 MHz

b) Channel 06: 6dB Emission Bandwidth is 8.2 MHz

c) Channel 11: 6dB Emission Bandwidth is 8.2 MHz

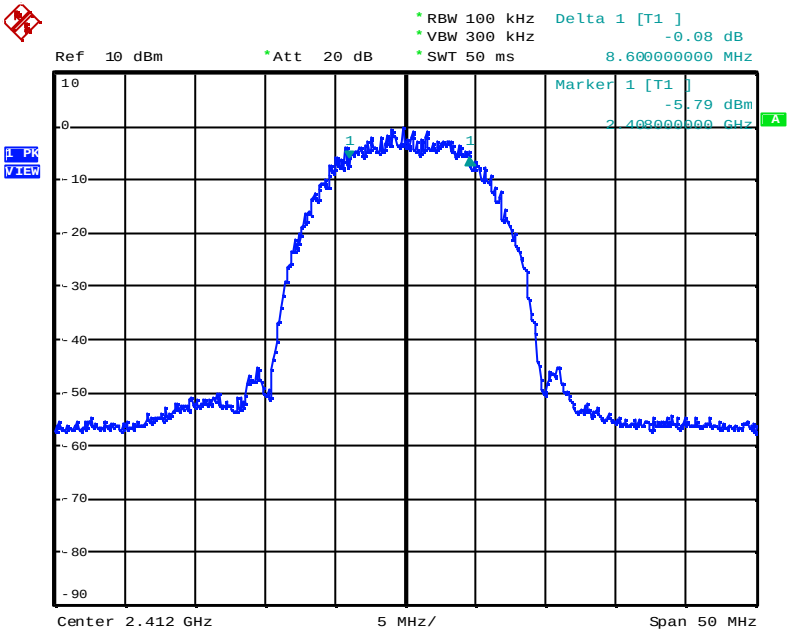
(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

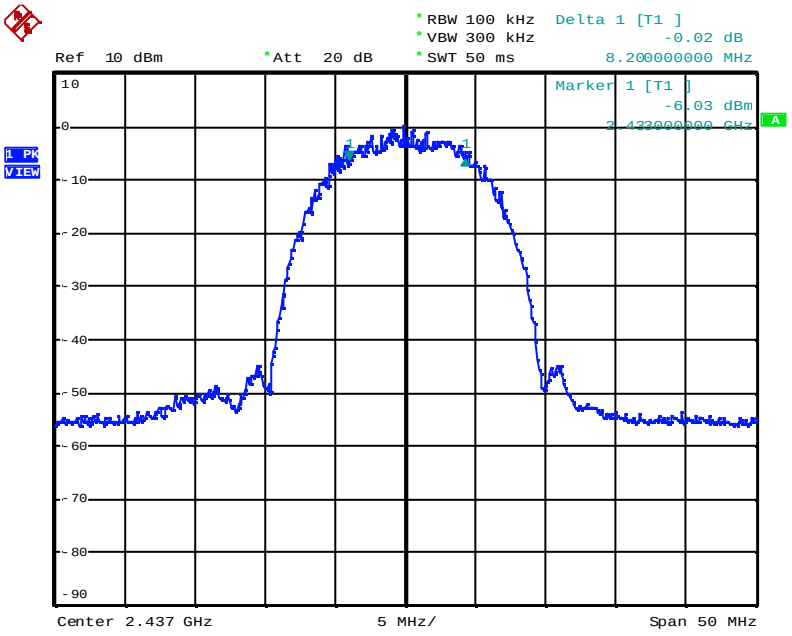
a) Channel 01: 6dB Emission Bandwidth is 16.5 MHz

b) Channel 06: 6dB Emission Bandwidth is 16.5 MHz

c) Channel 11: 6dB Emission Bandwidth is 16.5 MHz



Date: 8.NOV.2004 12:57:31



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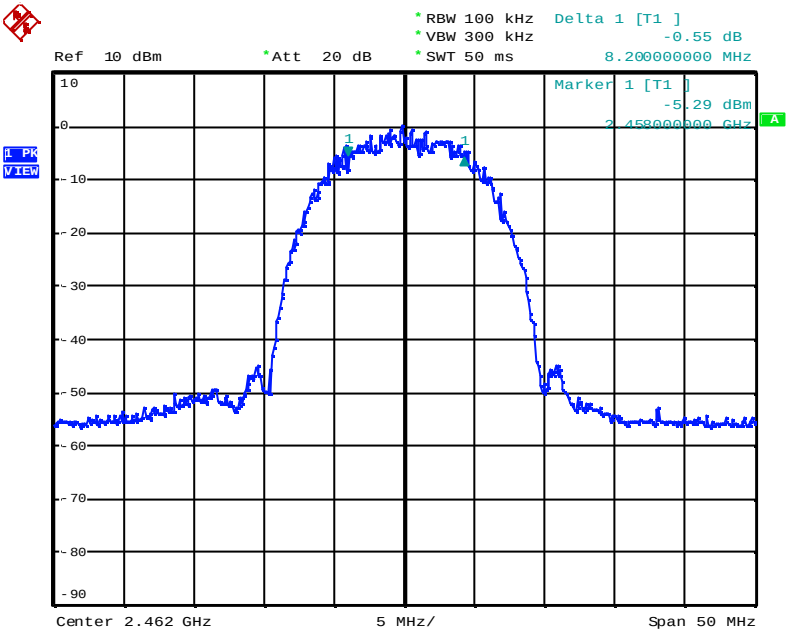

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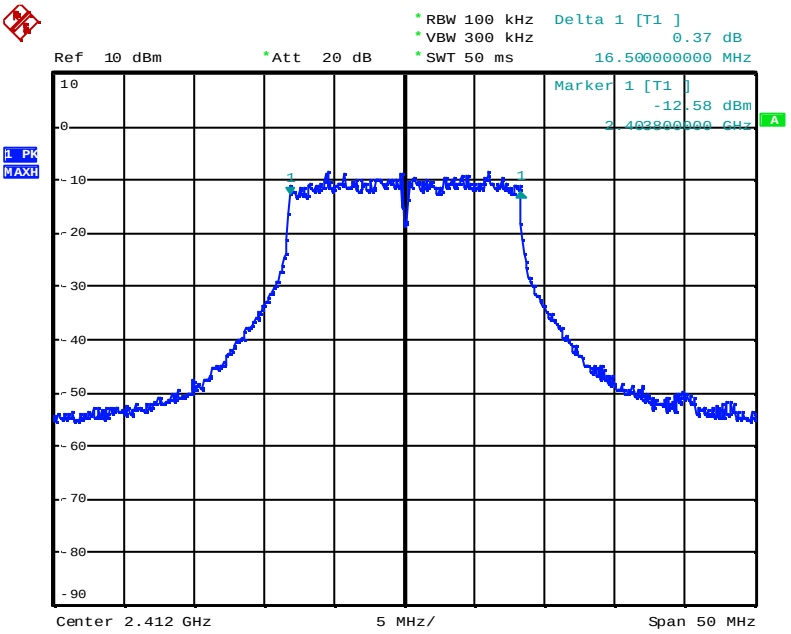

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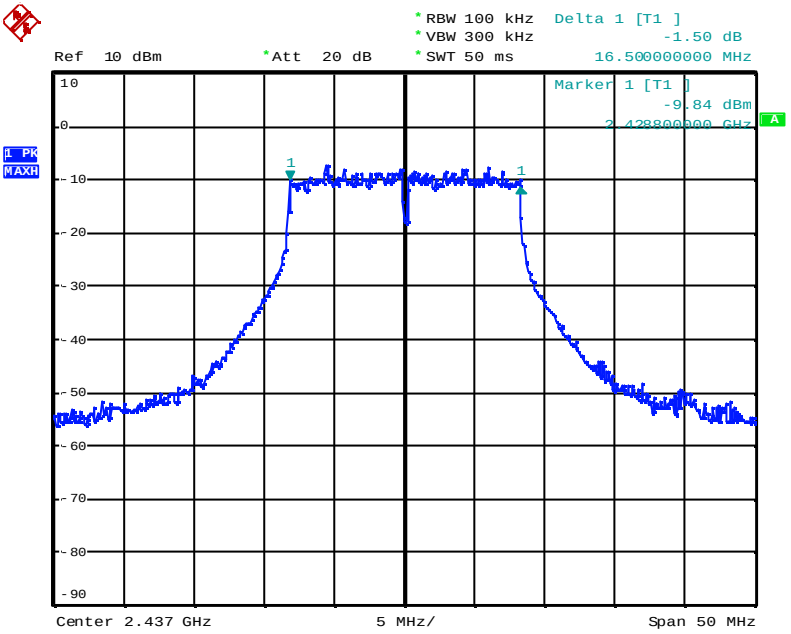
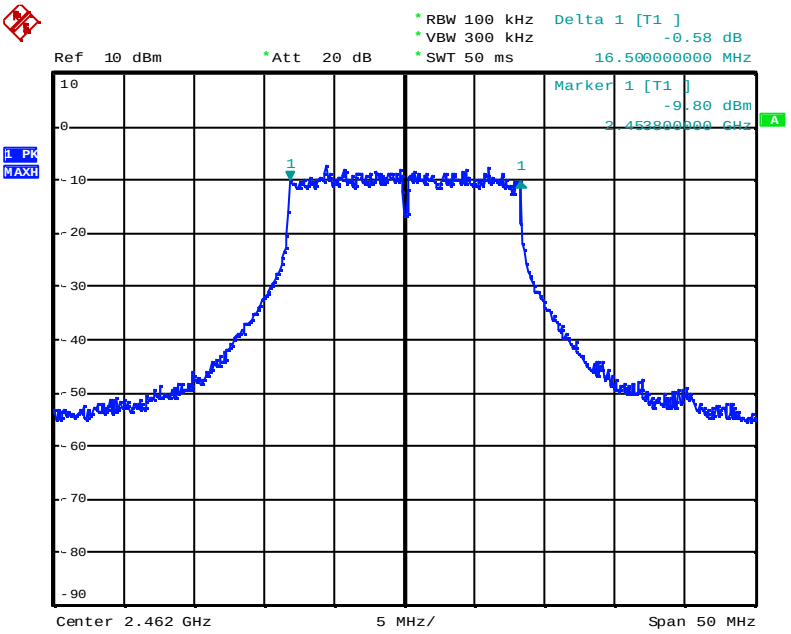


Date: 8.NOV.2004 12:33:04



Date: 8.NOV.2004 12:31:36

4.5. Peak Output Power Measurement Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

a) Channel 01: Output Peak Power is 14.73 dBm or 29.72 mW

b) Channel 06: Output Peak Power is 14.98 dBm or 31.48 mW

c) Channel 11: Output Peak Power is 15.20 dBm or 33.11 mW

(2) Modulation Standard: IEEE 802.11g (54Mbps)

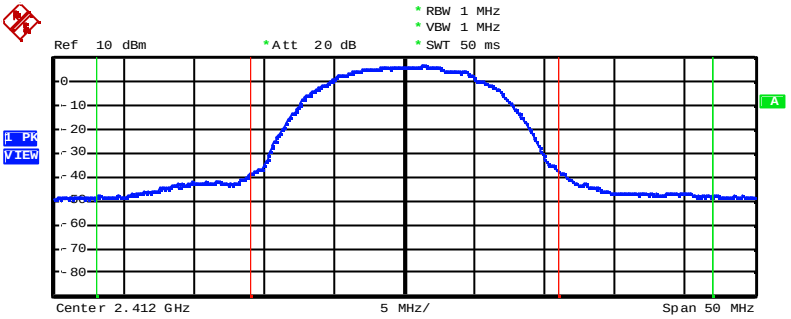
Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

a) Channel 01: Output Peak Power is 12.48 dBm or 17.70 mW

b) Channel 06: Output Peak Power is 12.88 dBm or 19.41 mW

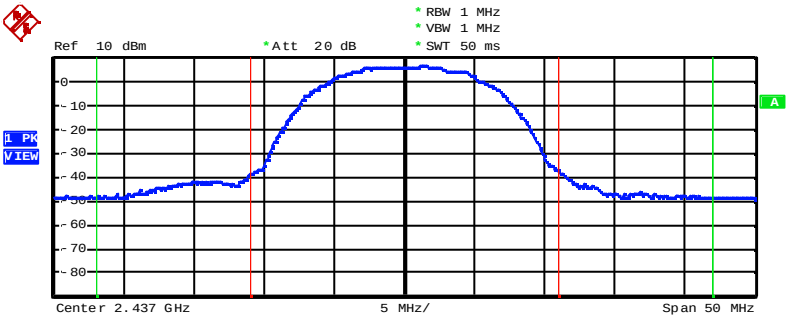
c) Channel 11: Output Peak Power is 12.75 dBm or 18.84 mW

Note: Conducted Power = Reading Value + Cable Loss



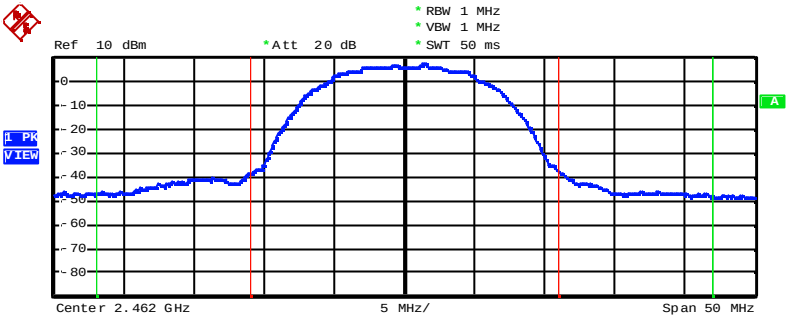
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	14.73 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-48.69 dB
Spacing	16.5 MHz	Upper	-49.62 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 8.NOV.2004 12:21:19



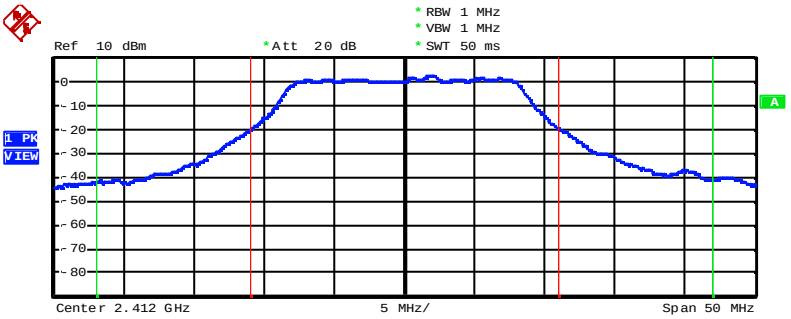
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	14.98 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-48.81 dB
Spacing	16.5 MHz	Upper	-50.22 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 8.NOV.2004 12:19:15



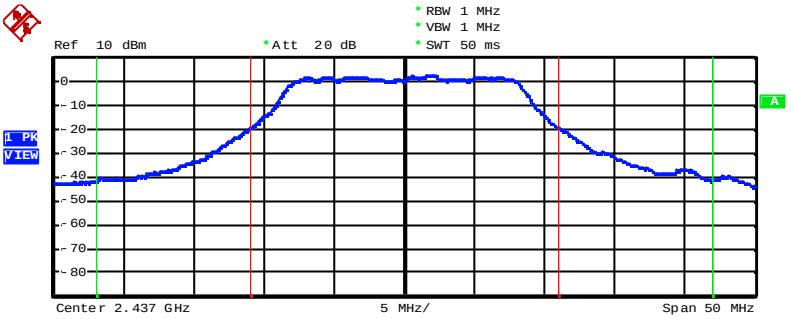
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.20 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-48.06 dB
Spacing	16.5 MHz	Upper	-49.86 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 8.NOV.2004 12:18:21



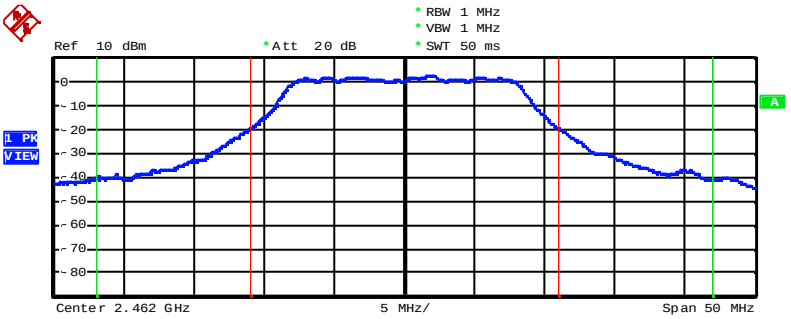
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	12.48 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.03 dB
Spacing	16.5 MHz	Upper	-31.53 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 8.NOV.2004 12:25:08



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	12.88 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.89 dB
Spacing	16.5 MHz	Upper	-31.80 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 8.NOV.2004 12:26:50



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	12.75 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.68 dB
Spacing	16.5 MHz	Upper	-31.94 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 8.NOV.2004 12:28:24

4.6. Band Edges Measurement Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

a) Lower Band Edge: maximum value is -49.36 dBm that is attenuated more than 20dB

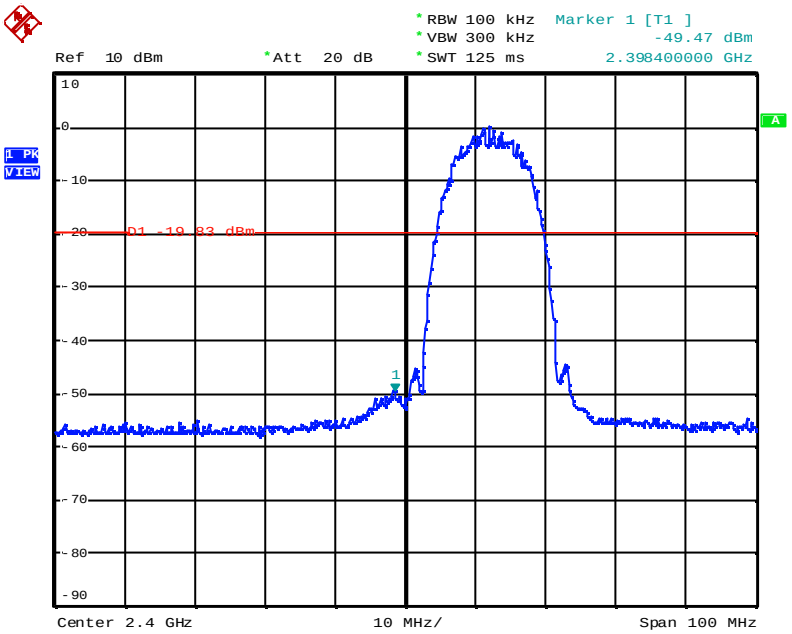
b) Upper Band Edge: maximum value is -53.37 dBm that is attenuated more than 20dB

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

a) Lower Band Edge: maximum value is -.39.41 dBm that is attenuated more than 20dB

b) Upper Band Edge: maximum value is -50.71 dBm that is attenuated more than 20dB



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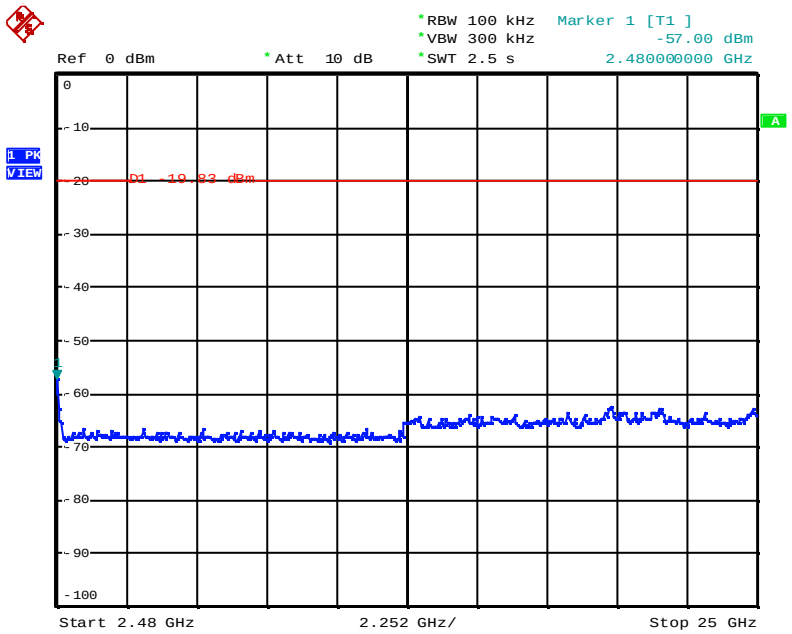

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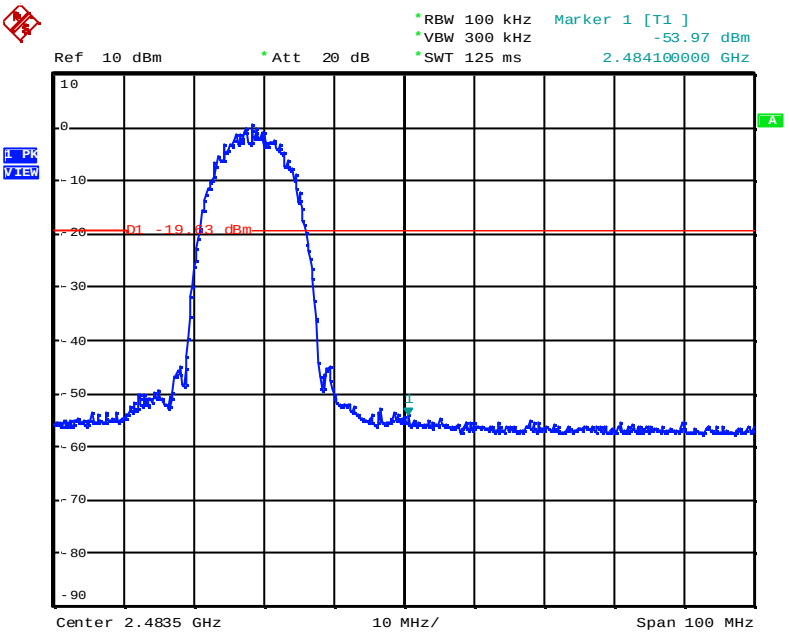

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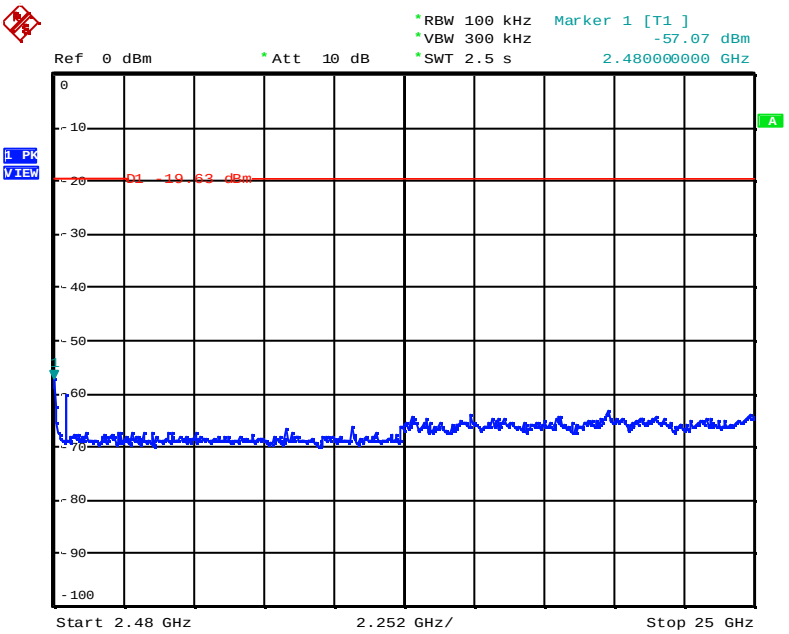

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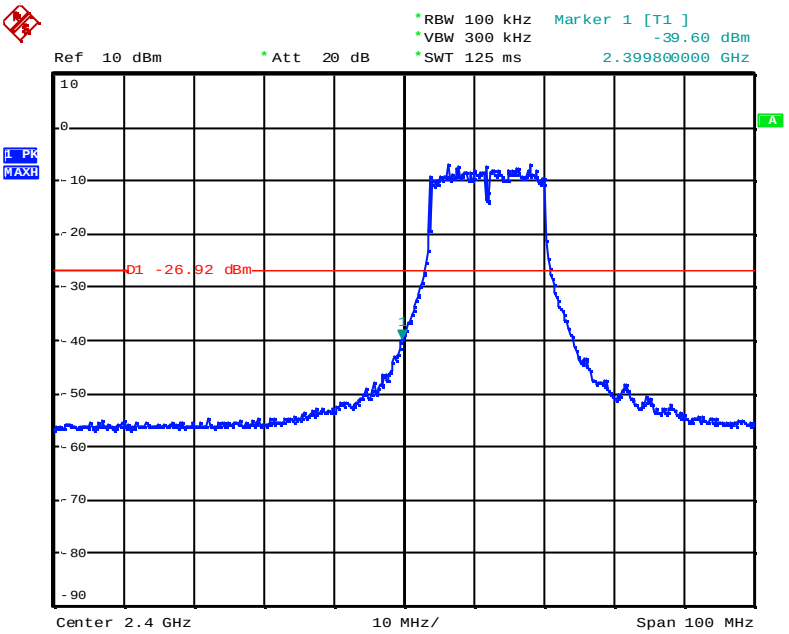

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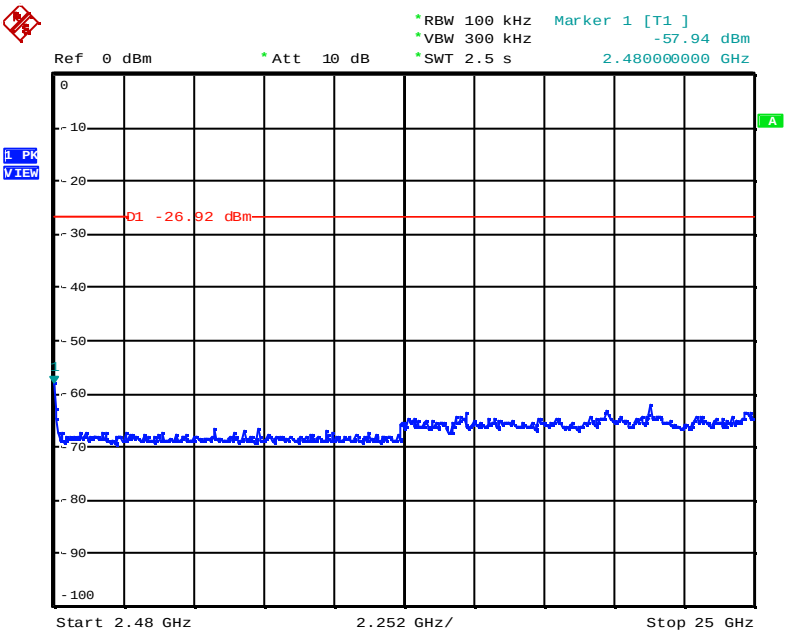

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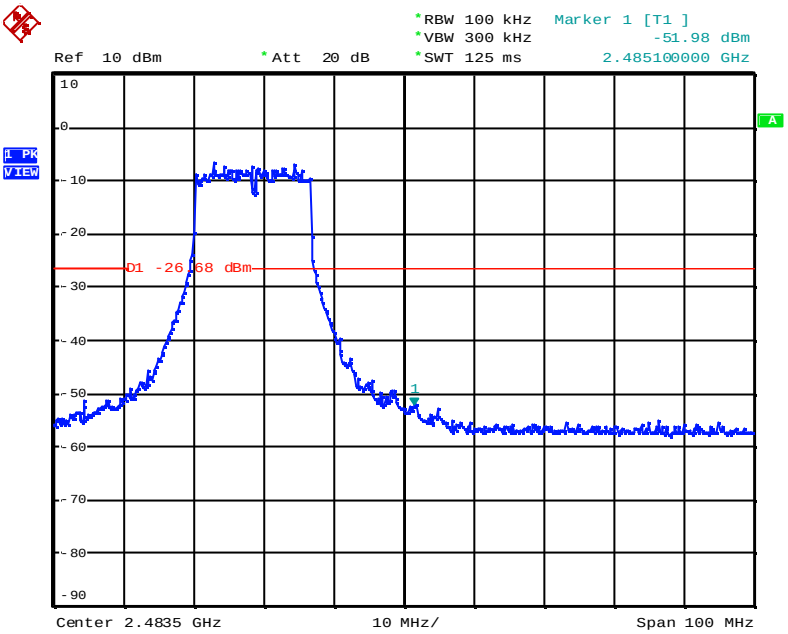

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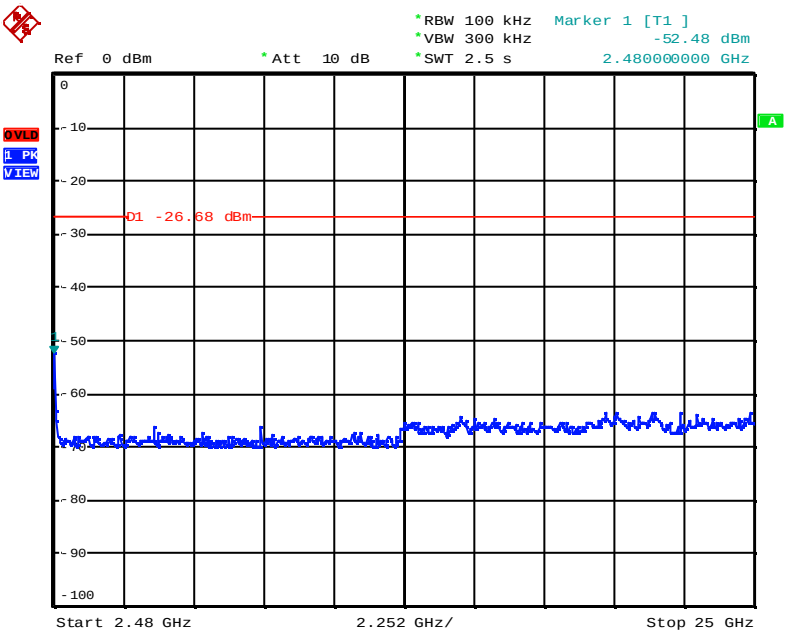


Date: 8.NOV.2004 14:11:01

4.7. Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)
Test Date: Nov. 05, 2004 Temperature: 24℃ Humidity: 63%
a) Channel 1
Fundamental Frequency: 2412 MHz

Frequency (MHz)	Meter Reading	Factor	Level (dBV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
						Peak	Ave.			
2387.272	---	---	---	H	Peak	74	54	---	---	---
2387.272	49.53	1.24	50.77	H	Ave.	74	54	-3.23	192	1.5
2386.048	---	---	---	V	Peak	74	54	---	---	---
2386.048	51.39	0.54	51.93	V	Ave.	74	54	-2.07	195	1.5

b) Channel 11
Fundamental Frequency: 2462 MHz

Frequency (MHz)	Meter Reading	Factor	Level (dBV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
						Peak	Ave.			
2497.644	---	---	---	H	Peak	74	54	---	---	---
2497.644	49.34	1.62	50.96	H	Ave.	74	54	-23.04	186	1.5
2495.288	---	---	---	V	Peak	74	54	---	---	---
2495.288	52.26	0.91	53.17	V	Ave.	74	54	-0.83	190	.1.5

Modulation Standard: IEEE 802.11g (54Mbps)
Test Date: Nov. 05, 2004 Temperature: 24℃ Humidity: 63%
a) Channel 1
Fundamental Frequency: 2412 MHz

Frequency (MHz)	Meter Reading	Factor	Level (dBV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
						Peak	Ave.			
2389.108	---	---	---	H	Peak	74	54	---	---	---
2389.108	51.76	1.25	53.01	H	Ave.	74	54	-0.99	193	1.5
2388.496	58.22	0.54	58.76	V	Peak	74	54	-15.24	190	1.5
2389.924	39.35	0.55	39.90	V	Ave.	74	54	-14.10	190	1.5

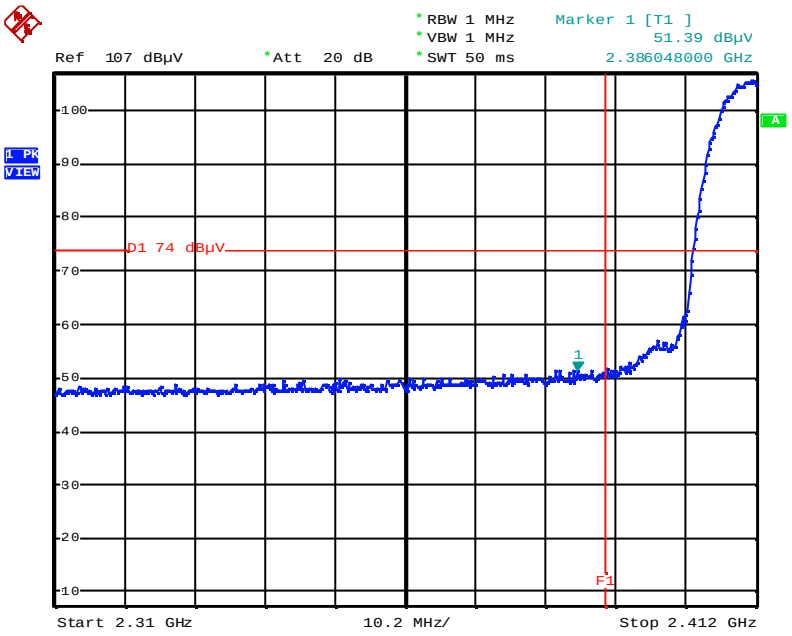
b) Channel 11
Fundamental Frequency: 2462 MHz

Frequency (MHz)	Meter Reading	Factor	Level (dBV)	Polarization	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant High (m)
						Peak	Ave.			
2484.724	55.28	1.58	56.86	H	Peak	74	54	-17.14	195	1.5
2483.584	35.73	1.57	37.30	H	Ave.	74	54	-16.70	190	1.5
2484.952	60.58	0.88	61.46	V	Peak	74	54	-12.54	188	1.5
2483.660	38.15	0.87	39.04	V	Ave.	74	54	-14.96	188	1.5

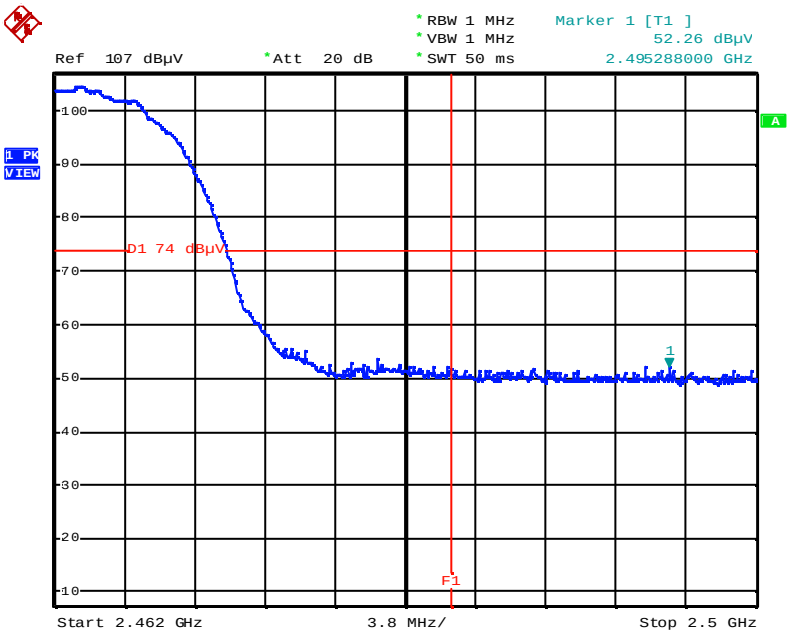
Notes:
1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection and Quasi-peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.

Modulation Standard: IEEE 802.11b

Pol/Phase: Vertical



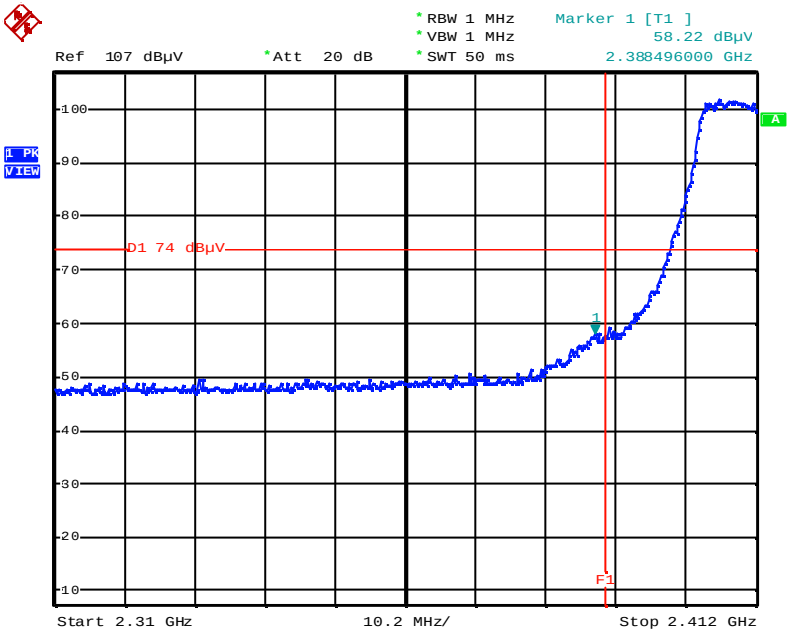
Date: 5.NOV.2004 19:17:06



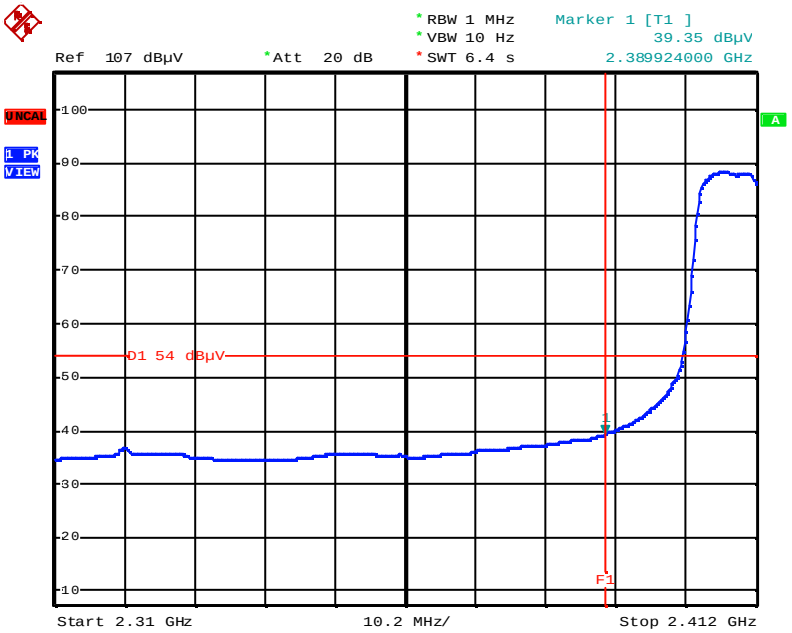
Date: 5.NOV.2004 19:19:26

Modulation Standard: IEEE 802.11g

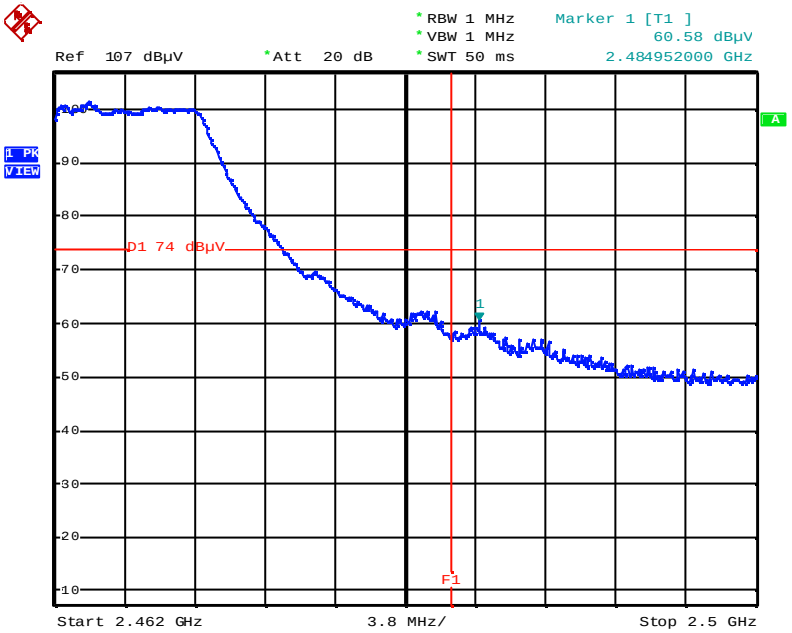
Pol/Phase: Vertical



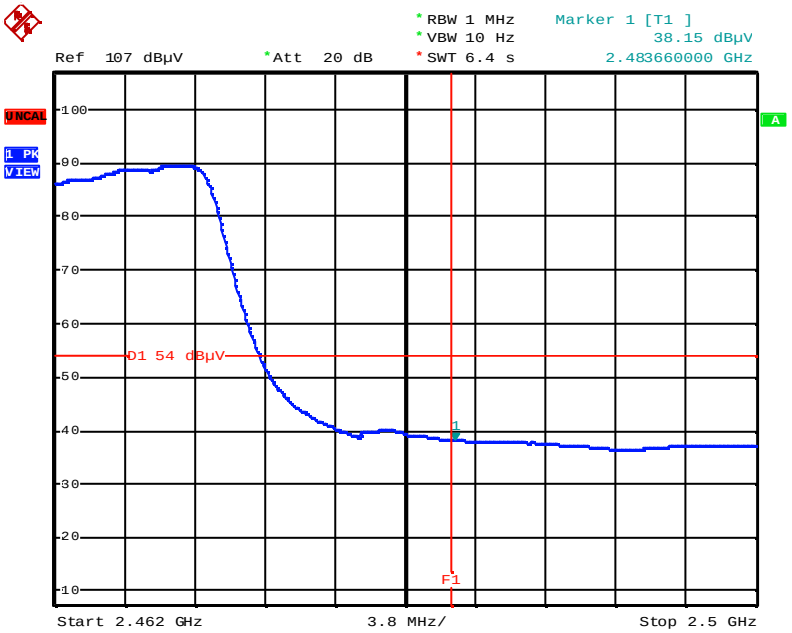
Date: 5.NOV.2004 19:09:39



Date: 5.NOV.2004 19:13:02



Date: 5.NOV.2004 19:21:51



Date: 5.NOV.2004 19:23:35

4.8. Power Spectral Density Measurement Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -14.65 dBm

b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -14.97 dBm

c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -15.25 dBm

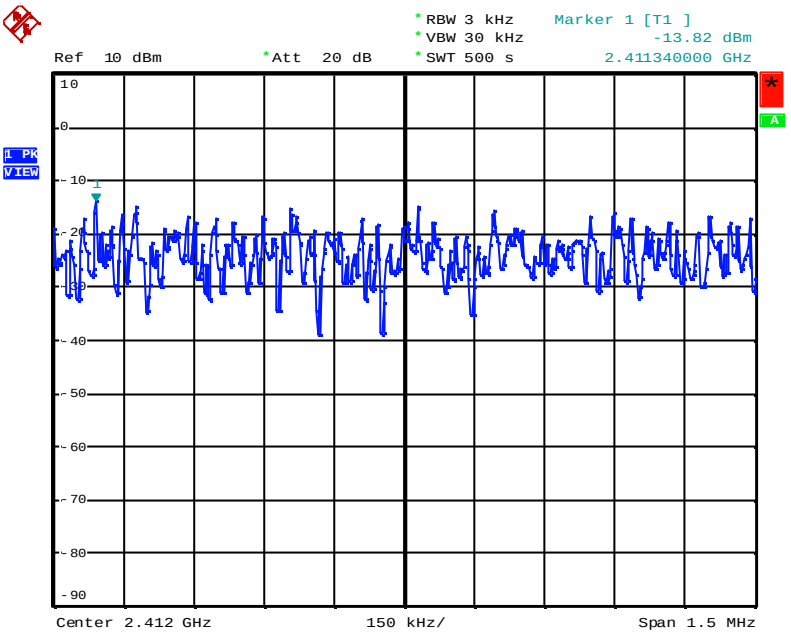
(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Nov. 08, 2004 Temperature: 25℃ Humidity: 62%

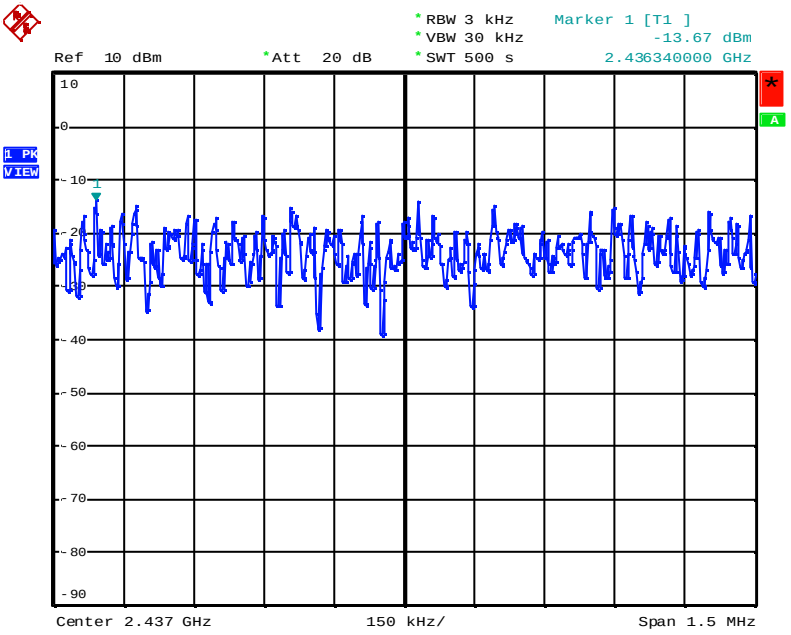
a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -22.13 dBm

b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -22.23 dBm

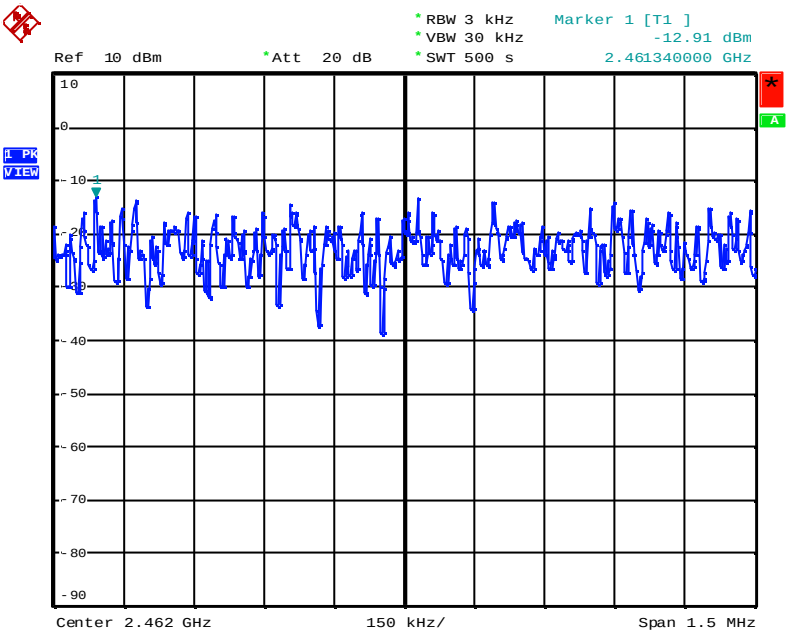
c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -22.98 dBm



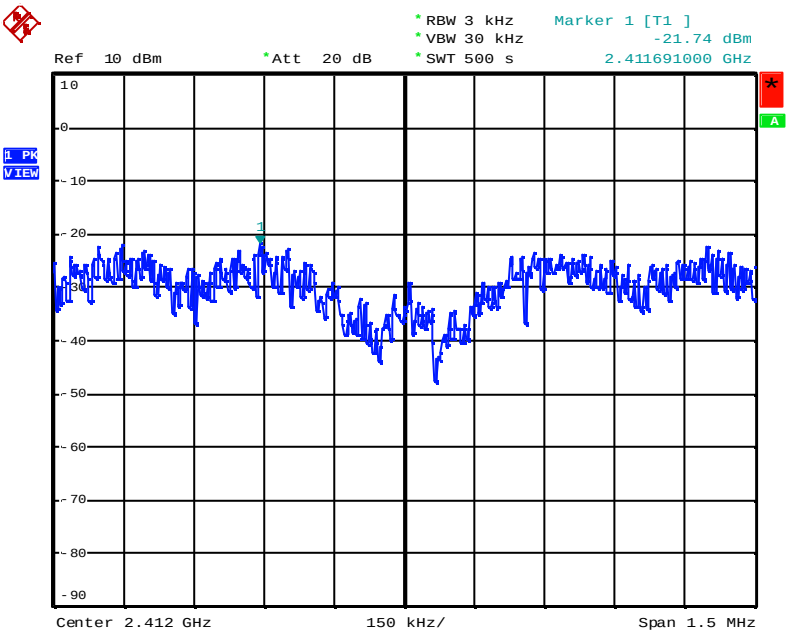
Date: 8.NOV.2004 16:13:17



Date: 8.NOV.2004 16:34:02



Date: 8.NOV.2004 16:43:19



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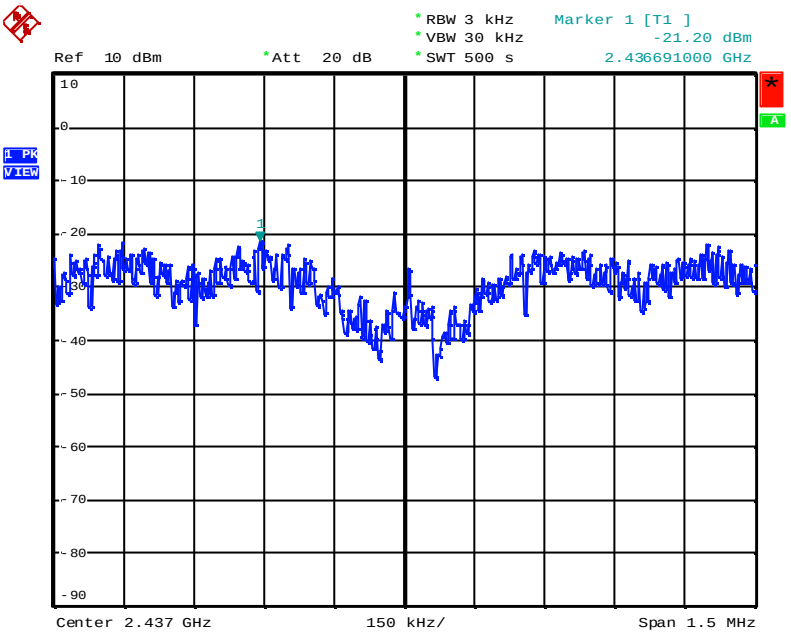
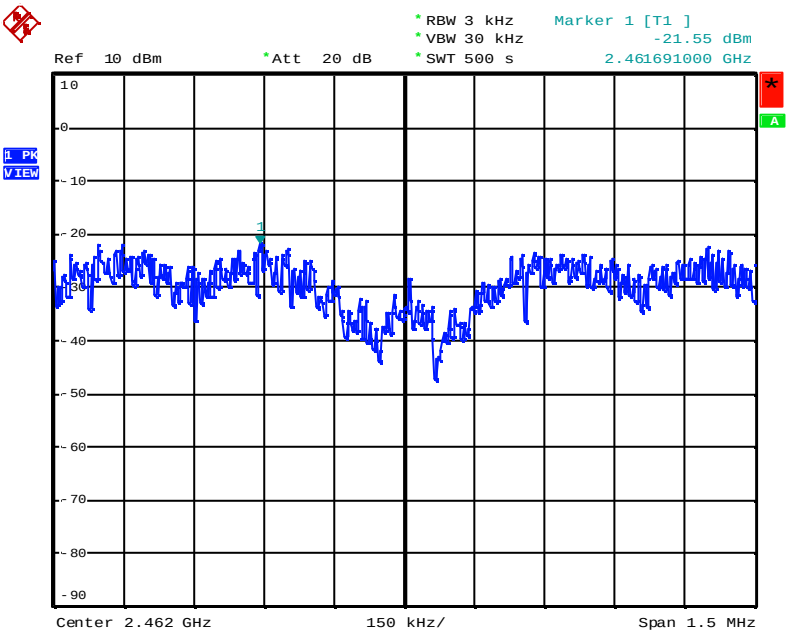


Date: 8.NOV.2004 15:54:37



Date: 8.NOV.2004 15:37:11

5. List of Measuring Equipment Used

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
1	Bilog Antenna	CBL6112B	Schaffner	2762	2005/04/08
2	Preamplifier	RFP4002	Schaffner	010	2005/11/03
3	Receiver	SCR3501	Schaffner	437	2005/11/03
4	Signal Generator	8648B	HP	3629U00612	2006/02/09
5	Spectrum Analyzer	8594E	HP	3520A01913	2005/01/15
6	Amplifier	8447D	Agilent	2443A04650	2005/02/02
7	Amplifier	8447D	Agilent	2944A10531	2005/06/30
8	Series Power Meter	E4416A	Agilent	GB41292146	2005/10/11
9	Power Sensor	E9327A	Agilent	US40441392	2005/10/11
10	Dipole Antenna	AD-100	COM-Power	721011	2005/12/02
11	Dipole Antenna	AD-100	COM-Power	721010	2005/12/02
12	Spectrum Analyzer	FSP40	R&S	100047	2005/12/16
13	Preamplifier	8449B	Agilent	3008A01954	2005/01/04
14	Horn Antenna	3115	EMCO	31601	2005/01/13
15	Horn Antenna	3115	EMCO	31589	2005/01/13
16	Horn Antenna	3116	EMCO	31970	2005/01/29
17	Horn Antenna	3116	EMCO	31974	2005/01/29
18	EMI Receiver	8546A	HP	3807A00454	2005/02/12
19	RF Filter Section	85460A	HP	3704A00386	2005/02/12
20	Signal Generator	83640A	HP	2927A00107	2006/04/02
21	Attenuator	8491B	Agilent	50703	2005/12/16
22	Attenuator	8491B	Agilent	50705	2005/12/16
23	Temperature Chamber	TMJ-9712	T Machine	T-12-040111	2005/02/05
24	High Pass Filter	84300-80038	HP	002	N/A
25	High Pass Filter	84300-80038	HP	006	N/A
26	DC Power Supply	GPD-3030	GM	7020936	N/A
27	AC Power Converter	AFC-11005	APC	F103120008	N/A