FCC TEST REPORT

REPORT NO.: RF951031H02A
MODEL NO.: BWA-35302, BWA-35302-ED, SMC8014WG-SI
RECEIVED: Jan. 05, 2007
TESTED: Feb. 07 to 15, 2007
ISSUED: Feb. 27, 2007

APPLICANT: HitronTechnologies

ADDRESS: NO. 1-8, LISING 1ST RD., HSINCHU SCIENCE PARK, HSINCHU, 300, TAIWAN.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien, Taiwan, R.O.C.

0536

No. 2177-01

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1 CERTIFICATION

PRODUCT :	Wireless Cable Modem
BRAND NAME :	Hitron
MODEL NO. :	BWA-35302, BWA-35302-ED, SMC8014WG-SI
TESTED:	Feb. 07 to 15, 2007
APPLICANT :	HitronTechnologies
TEST ITEM:	R&D SAMPLE
STANDARDS :	47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-2003

The above equipment (Model: BWA-35302) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Carol Liao , **DATE:** Feb. 27, 2007
(Carol Liao)

TECHNICAL ACCEPTANCE : Moris Lin , **DATE:** Feb. 27, 2007
Responsible for RF
(Moris Lin)

APPROVED BY : Hank Chung , **DATE:** Feb. 27, 2007
(Hank Chung)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	**Test Type and Limit**	**Result**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is –11.45 dB at 0.158 MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is –1.3 dB at 4874.00 MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions	2.26 dB
Radiated emissions (30MHz-1GHz)	2.98 dB
Radiated emissions (1GHz ~18GHz)	2.21 dB
Radiated emissions (18GHz ~40GHz)	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Cable Modem
MODEL NO.	BWA-35302, BWA-35302-ED, SMC8014WG-SI
FCC ID	U4P-1350001
POWER SUPPLY	DC 5V from power adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
CHANNEL SPACING	5MHz
OUTPUT POWER	802.11b: 104.713mW 802.11g: 93.325mW
ANTENNA TYPE	Dipole Antenna with I-PEX MHF connector
DATA CABLE	USB cable(1.8m, Shielded)
I/O PORTS	RJ45 Port x 1 Coaxial port x 1
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT has three model names, which are identical to each other in all aspects except for the followings:

Brand Name	Model Name	Description
Hitron	BWA-35302	For marking different
	BWA-35302-ED	
	SMC8014WG-SI	

From the above models, model: **BWA-35302** was selected as representative model for the test and its data was recorded in this report.

2. The EUT was powered by following power adapters:

Adapter 1:	
Brand:	Leader Electronics Inc.
Model No.:	MU12-2050150-A1
Input power :	120-240V~50/60Hz, 0.5A
Output power :	5V, 1.5A, non-shielded, without core, 1.9m
Adapter 2:	
Brand:	DVE
Model No.:	DSA-20D-05 2 050010
Input power :	100-240V, 50-60Hz, 0.7A, non-shielded , without core ,1.8m
Output power :	5V, 2A, non-shielded, with one core, 1.8m

3. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.

4. The EUT complies with IEEE 802.11g standards, and backwards compatible with IEEE 802.11b products.

5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

For 802.11b/g normal mode: Eleven channels are provided to this EUT.

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

3.3 TEST MODE APPLICABLITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
-	√	√	√	√	NA

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz
RE≥1G: Radiated Emission above 1GHz APCM: Antenna Port Conducted Measurement

Power Line Conducted Emission Test:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1	DSSS	CCK	1

☒ The EUT was tested with the following test modes:

Test Mode	Description
Mode 1	Wth Adapter 1
Mode 2	Wth Adapter 2

Radiated Emission Test (Below 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1	DSSS	CCK	1

☒ The EUT was tested with the following test modes:

Test Mode	Description
Mode 1	Wth Adapter 1
Mode 2	Wth Adapter 2

Radiated Emission Test (Above 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

☒ The EUT was pre-tested in chamber as the following test modes:

Test Mode	POWER
Mode 1	Wth Adapter 1
Mode 2	**Wth Adapter 2**

The worst was found in **Mode 2**, the worst cases, were chosen for final test.

Bandedge Measurement:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11	DSSS	CCK	1
802.11g	1 to 11	1, 11	OFDM	BPSK	6

Antenna Port Conducted Measurement:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless Cable Modem. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C. (15.247)
ANSI C63.4 : 2003

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

NOTE: 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 47 CFR Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.5 DESCRIPTION OF SUPPORT UNITS

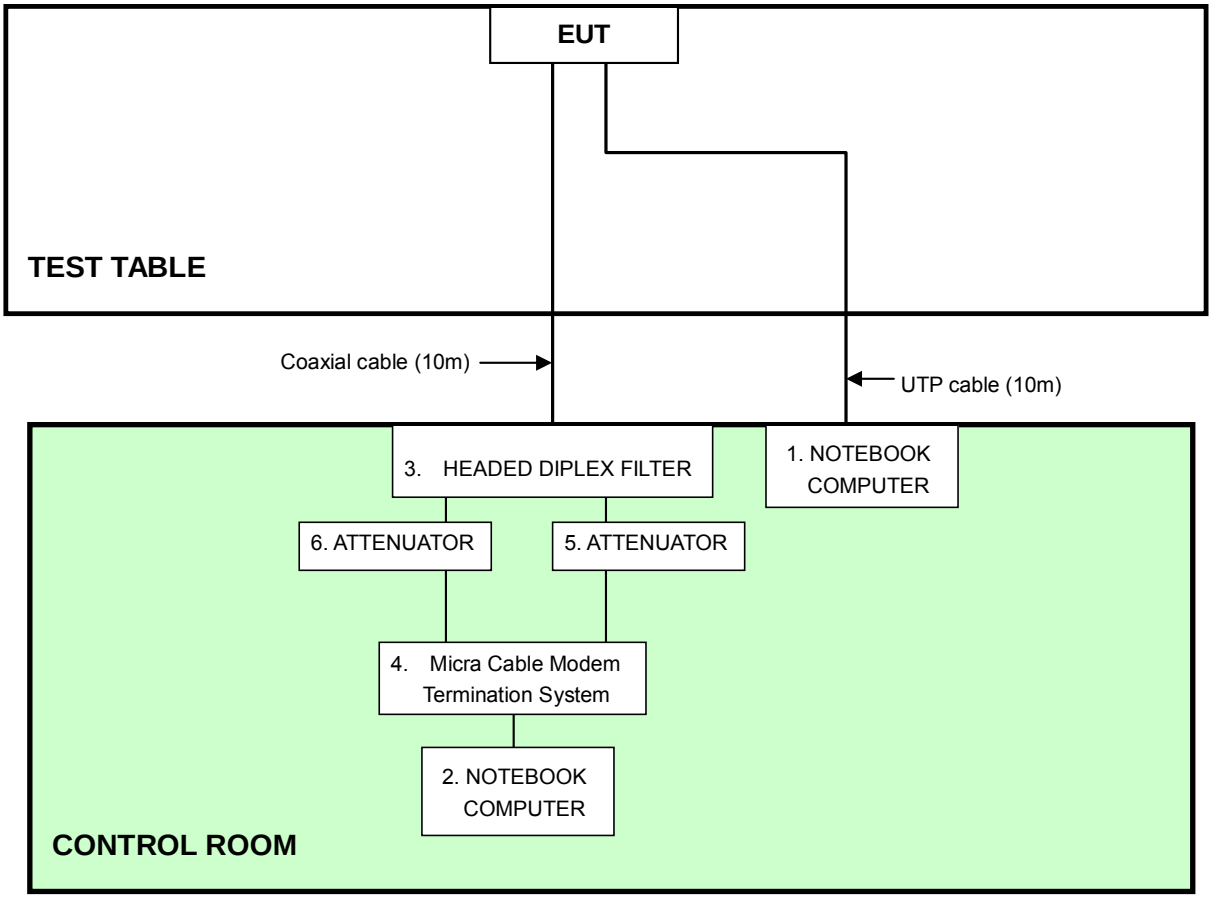
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	CN-04Y212-48643 -38E-0145	E2K24GBRL
2	NOTEBOOK COMPUTER	DELL	DMC	GV3ZB1S	NA
3	HEADED DIPLEX FILTER	NA	TF-55-XHE-III	NA	NA
4	Micra Cable Modem Termination System	NA	CMTE-100A	NA	NA
5	ATTENUATOR	NA	NA	NA	NA
6	ATTENUATOR	NA	NA	NA	NA

No.	Signal cable description
1	NA
2	NA
3	NA
4	NA
5	NA
6	NA

Note: 1. All power cords of the above support units are unshielded (1.8m).

3.6 CONFIGURATION OF SYSTEM UNDER TEST



NOTE: 1. Support units 1-6 were kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver	ESCS 30	847124/029	Dec. 14, 2007
Line-Impedance Stabilization Network(for EUT)	ENV-216	100071	Nov. 26, 2007
Line-Impedance Stabilization Network(for Peripheral)	KNW-407	8/1395/12	Aug. 15, 2007
RF Cable (JETBAO)	RG233/U	Cable_CB_01	Dec. 09, 2007
Terminator	50	2	Oct. 30, 2007
Software	ADT_Cond_V7.3.2	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in ADT Shielded Room No. B.
3. The VCCI Con B Registration No. is C-2193.

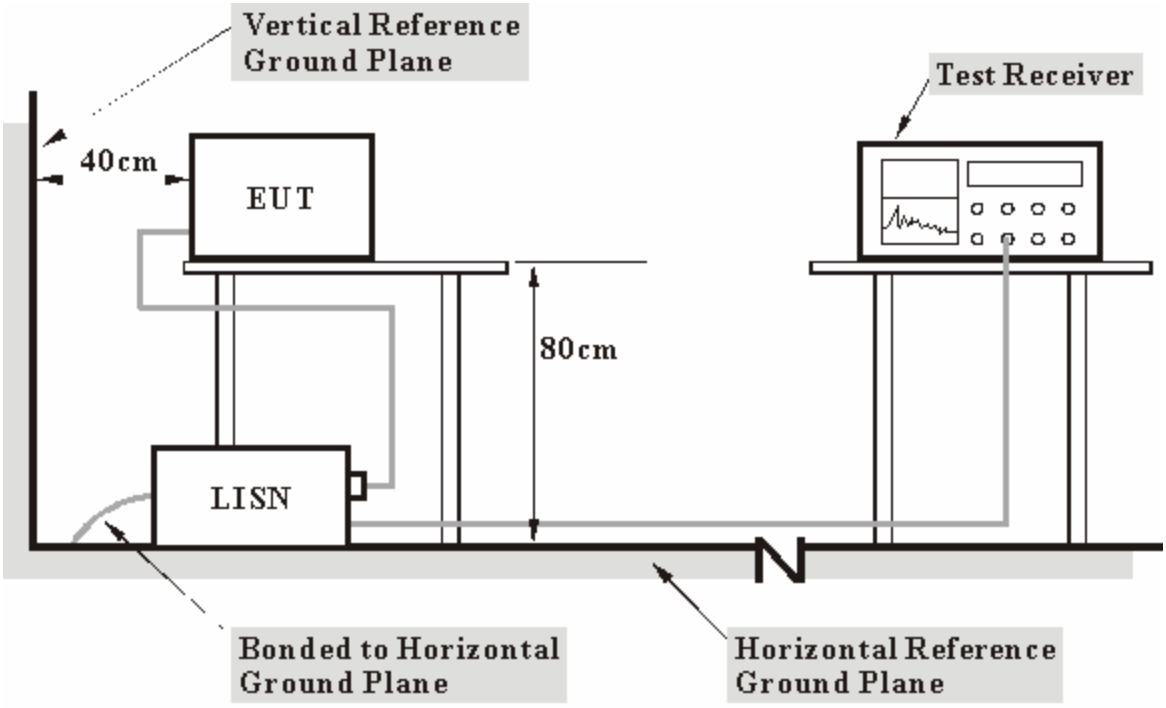
4.1.3 TEST PROCEDURES

a. The EUT/HOST was placed 0.4 meters from the conducting wall of the shielded room with EUT/HOST being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT/HOST were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.5 EUT OPERATING CONDITIONS

a. Turn on the power of all equipment.

b. Prepared other computer system (support unit 1-6) to act as communication partners and placed them outside of testing area.

c. The communication partner runs the test program "Ping.exe" to enable EUT under transmission/receiving condition continuously via UTP cable, Coaxial cable and wireless.

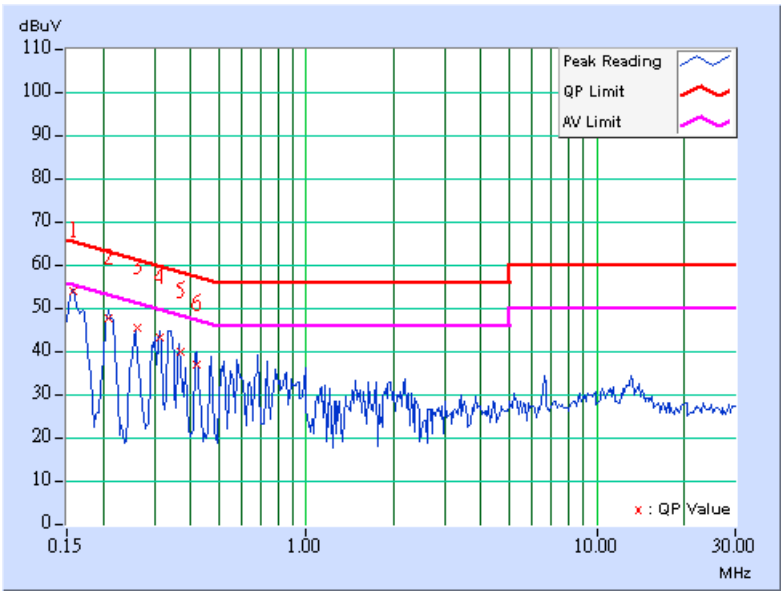
d. Repeat steps b-c.

4.1.6 TEST RESULTS

TEST MODE	With Adapter 1	**CHANNEL**	Channel 1
MODULATION TYPE	CCK	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TRANSFER RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 970hPa	**PHASE**	Line (L)
TESTED BY	Wen Yu		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.158**	**9.60**	**44.53**	**-**	**54.13**	**-**	**65.58**	**55.58**	**-11.45**	**-**
2	0.209	9.60	38.19	-	47.79	-	63.26	53.26	-15.47	-
3	0.262	9.60	36.06	-	45.66	-	61.37	51.37	-15.71	-
4	0.314	9.60	33.80	-	43.40	-	59.86	49.86	-16.46	-
5	0.368	9.60	30.35	-	39.95	-	58.54	48.54	-18.59	-
6	0.420	9.60	27.42	-	37.02	-	57.46	47.46	-20.44	-

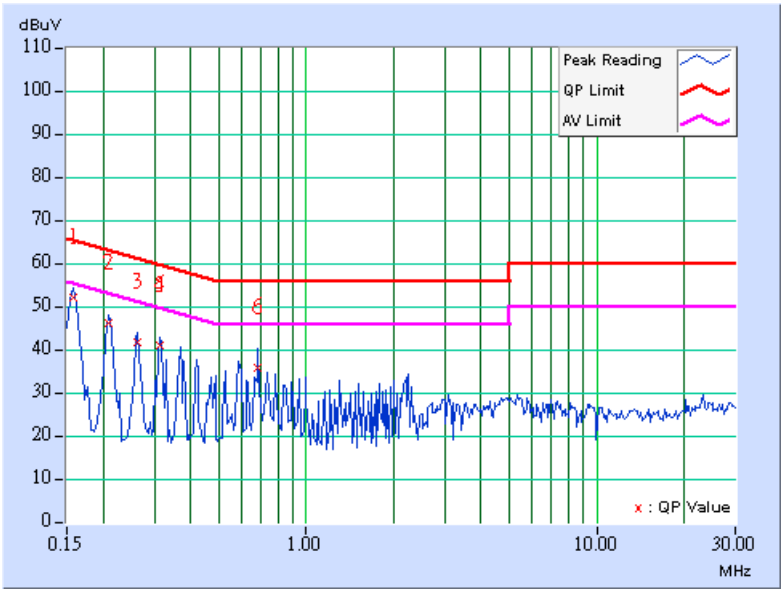
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



TEST MODE	With Adapter 1	**CHANNEL**	Channel 1
MODULATION TYPE	CCK	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TRANSFER RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 970hPa	**PHASE**	Neutral (N)
TESTED BY	Wen Yu		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	9.60	42.68	-	52.28	-	65.58	55.58	-13.30	-
2	0.209	9.60	36.66	-	46.26	-	63.26	53.26	-17.00	-
3	0.263	9.60	32.39	-	41.99	-	61.33	51.33	-19.34	-
4	0.314	9.60	31.40	-	41.00	-	59.86	49.86	-18.86	-
5	0.314	9.60	31.40	-	41.00	-	59.86	49.86	-18.86	-
6	0.681	9.60	26.30	-	35.90	-	56.00	46.00	-20.10	-

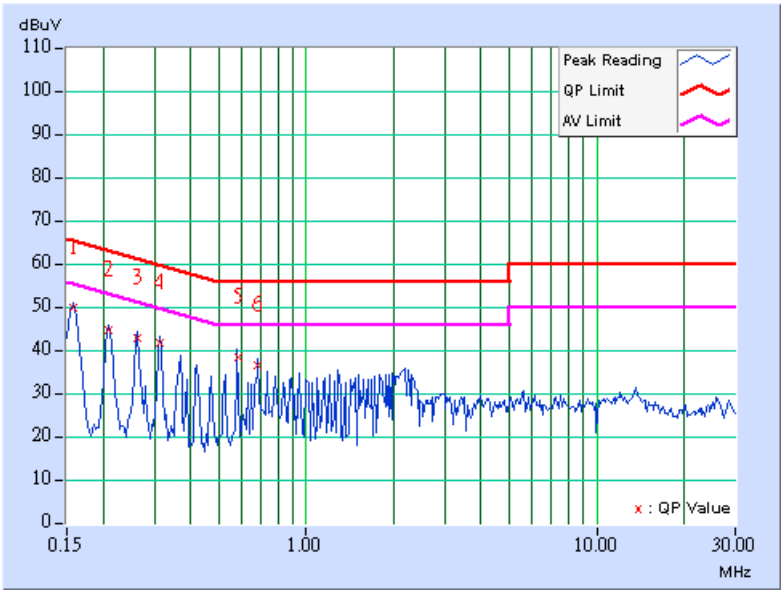
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



TEST MODE	With Adapter 2	**CHANNEL**	Channel 1
MODULATION TYPE	CCK	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TRANSFER RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 970hPa	**PHASE**	Line (L)
TESTED BY	Wen Yu		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	9.60	40.46	-	50.06	-	65.58	55.58	-15.52	-
2	0.209	9.60	35.03	-	44.63	-	63.26	53.26	-18.63	-
3	0.263	9.60	33.30	-	42.90	-	61.33	51.33	-18.43	-
4	0.314	9.60	32.23	-	41.83	-	59.86	49.86	-18.03	-
5	0.582	9.60	29.06	-	38.66	-	56.00	46.00	-17.34	-
6	0.681	9.60	27.16	-	36.76	-	56.00	46.00	-19.24	-

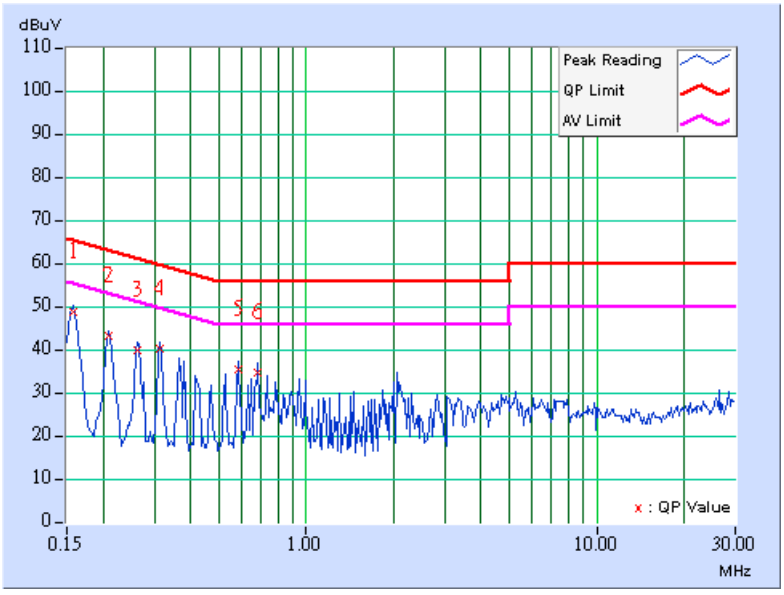
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



TEST MODE	With Adapter 2	**CHANNEL**	Channel 1
MODULATION TYPE	CCK	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TRANSFER RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 970hPa	**PHASE**	Neutral (N)
TESTED BY	Wen Yu		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	9.60	39.36	-	48.96	-	65.58	55.58	-16.62	-
2	0.209	9.60	33.57	-	43.17	-	63.26	53.26	-20.09	-
3	0.263	9.60	30.25	-	39.85	-	61.33	51.33	-21.48	-
4	0.314	9.60	30.72	-	40.32	-	59.86	49.86	-19.54	-
5	0.584	9.60	25.98	-	35.58	-	56.00	46.00	-20.42	-
6	0.681	9.60	25.06	-	34.66	-	56.00	46.00	-21.34	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	R3271A	85060311	July 03, 2007
HP Pre_Amplifier	8449B	3008A01922	Sep. 18, 2007
ROHDE & SCHWARZ Test Receiver	ESCS30	100375	Sep. 20, 2007
CHASE Broadband Antenna	VULB 9168	138	Dec. 10, 2007
Schwarzbeck Horn_Antenna	BBHA9120	D124	Jan. 01, 2008
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 04, 2008
SCHWARZBECK Biconical Antenna	VHBA9123	459	Jun. 08, 2009
SCHWARZBECK Periodic Antenna	UPA6108	1148	Jun. 08, 2009
R&S Loop Antenna	HFH2-Z2	881058/15	Nov. 29, 2007
RF Switches (ARNITSU)	CS-201	1565157	NA
RF CABLE (Chaintek)	SF102	22054-2	Nov. 14. 2007
RF Cable(RICHTEC)	9913-30M N-N Cable	STCCAB-30M-1 GHz	Jul. 15, 2007
Software	ADT_Radiated_V 5.14	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Biconical and Periodic Antenna)and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: R3271A) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. C.
4. The FCC Site Registration No. is 656396.
5. The VCCI Site Registration No. is R-1626.
6. The CANADA Site Registration No. is IC 4824A-3.
7. Loop antenna was used for all emissions below 30 MHz.

4.2.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

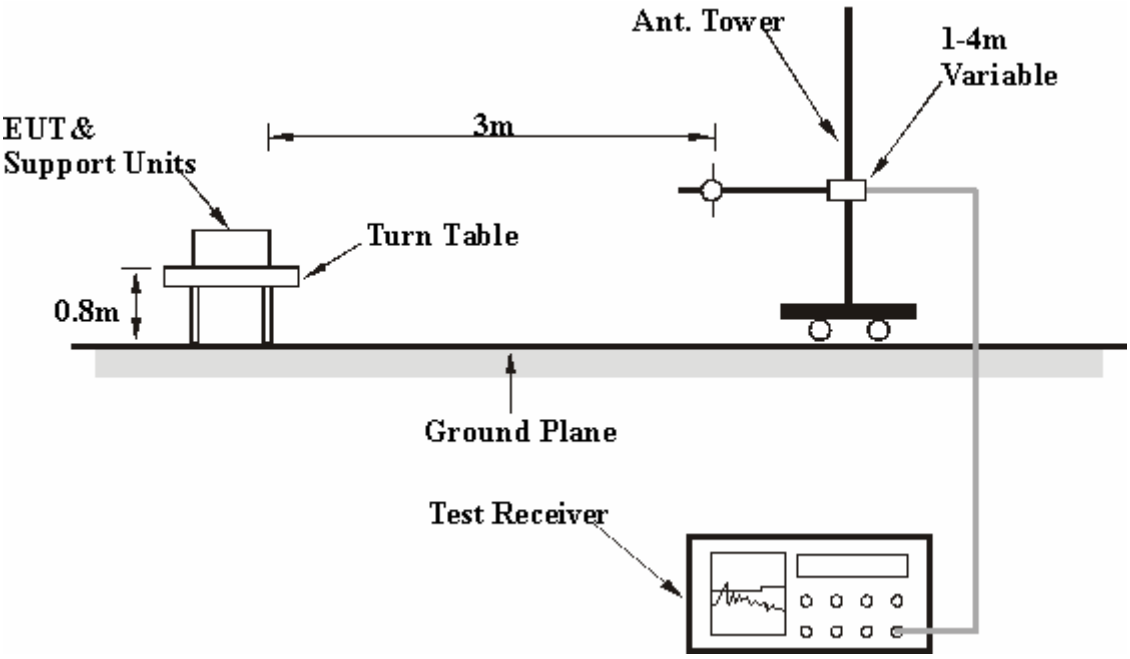
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5

4.2.6 TEST RESULTS

Below 1GHz Worst-Case Data

TEST MODE	With Adapter 1	**CHANNEL**	Channel 1
MODULATION TYPE	CCK	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**FREQUENCY RANGE**	30-1000 MHz
DETECTOR FUNCTION	Quasi-Peak, 120kHz	**TRANSFER RATE**	1Mbps
TESTED BY	Tony Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	129.54	32.90 QP	43.50	-10.60	1.48 H	291	20.40	12.60
2	225.01	32.20 QP	46.00	-13.80	1.49 H	69	19.50	12.70
3	250.00	35.90 QP	46.00	-10.10	1.08 H	58	22.20	13.80
4	375.01	36.10 QP	46.00	-9.90	1.00 H	306	17.90	18.20
5	399.99	37.80 QP	46.00	-8.20	1.00 H	33	18.80	19.00
6	500.02	34.20 QP	46.00	-11.80	1.00 H	53	12.40	21.80
7	799.99	37.30 QP	46.00	-8.70	1.02 H	27	9.70	27.60
8	874.98	29.70 QP	46.00	-16.30	1.01 H	104	1.10	28.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	111.63	28.00 QP	43.50	-15.50	1.14 V	244	17.20	10.90
2	129.54	31.80 QP	43.50	-11.70	1.03 V	237	19.20	12.60
3	250.00	28.50 QP	46.00	-17.50	1.06 V	172	14.80	13.80
4	375.01	34.60 QP	46.00	-11.40	1.19 V	0	16.40	18.20
5	400.00	35.50 QP	46.00	-10.50	1.12 V	0	16.50	19.00
6	500.02	31.50 QP	46.00	-14.50	1.02 V	322	9.70	21.80
7	874.98	28.90 QP	46.00	-17.10	1.22 V	306	0.30	28.60

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Below 1GHz Worst-Case Data

TEST MODE	With Adapter 2	**CHANNEL**	Channel 1
MODULATION TYPE	CCK	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**FREQUENCY RANGE**	30-1000 MHz
DETECTOR FUNCTION	Quasi-Peak, 120kHz	**TRANSFER RATE**	1Mbps
TESTED BY	Tony Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	129.54	33.20 QP	43.50	-10.30	1.42 H	213	20.60	12.60
2	225.01	32.80 QP	46.00	-13.20	1.47 H	236	20.10	12.70
3	250.00	36.20 QP	46.00	-9.80	1.02 H	360	22.40	13.80
4	375.01	36.80 QP	46.00	-9.20	1.12 H	14	18.60	18.20
5	400.00	37.20 QP	46.00	-8.80	1.01 H	147	18.20	19.00
6	500.02	34.70 QP	46.00	-11.30	1.23 H	312	12.90	21.80
7	799.99	38.20 QP	46.00	-7.80	1.00 H	360	10.60	27.60
8	874.98	29.90 QP	46.00	-16.10	1.04 H	143	1.30	28.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	112.67	29.10 QP	43.50	-14.40	1.03 V	123	18.10	11.00
2	129.54	32.40 QP	43.50	-11.10	1.08 V	360	19.80	12.60
3	250.00	29.70 QP	46.00	-16.30	1.12 V	10	15.90	13.80
4	375.01	34.10 QP	46.00	-11.90	1.07 V	45	15.90	18.20
5	400.00	35.90 QP	46.00	-10.10	1.12 V	58	16.90	19.00
6	500.02	32.60 QP	46.00	-13.40	1.00 V	236	10.80	21.80
7	874.98	29.30 QP	46.00	-16.70	1.20 V	142	0.70	28.60

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

802.11b DSSS modulation

MODE	Channel 1	**FREQUENCY RANGE**	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION & BANDWIDTH**	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**TESTED BY**	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2375.00	58.50 PK	74.00	-15.50	1.24 H	324	26.70	31.90
1	2375.00	45.40 AV	54.00	-8.60	1.24 H	324	13.50	31.90
2	*2412.00	104.40 PK			1.24 H	324	72.40	32.00
2	*2412.00	97.70 AV			1.24 H	324	65.70	32.00
3	4824.00	47.20 PK	74.00	-26.80	1.13 H	241	11.20	36.00
3	4824.00	38.80 AV	54.00	-15.20	1.13 H	241	2.90	36.00
4	7236.00	51.50 PK	74.00	-22.50	1.24 H	132	9.20	42.20
4	7236.00	37.20 AV	54.00	-16.80	1.24 H	132	-5.00	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2375.00	66.30 PK	74.00	-7.70	1.42 V	274	34.40	31.90
1	2375.00	48.80 AV	54.00	-5.20	1.42 V	274	16.90	31.90
2	*2412.00	114.30 PK			1.42 V	274	82.30	32.00
2	*2412.00	107.50 AV			1.42 V	274	75.50	32.00
3	4824.00	48.30 PK	74.00	-25.70	1.35 V	91	12.40	36.00
3	4824.00	41.50 AV	54.00	-12.50	1.35 V	91	5.50	36.00
4	7236.00	51.20 PK	74.00	-22.80	1.26 V	268	8.90	42.20
4	7236.00	37.50 AV	54.00	-16.50	1.26 V	268	-4.80	42.20

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

MODE	Channel 6	**FREQUENCY RANGE**	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION & BANDWIDTH**	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**TESTED BY**	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	107.80 PK			1.26 H	110	75.60	32.10
1	*2437.00	100.10 AV			1.26 H	110	68.00	32.10
2	4874.00	52.00 PK	74.00	-22.00	1.42 H	344	15.90	36.10
2	4874.00	48.00 AV	54.00	-6.00	1.42 H	344	11.90	36.10
3	7311.00	51.90 PK	74.00	-22.10	1.20 H	156	9.40	42.50
3	7311.00	37.70 AV	54.00	-16.30	1.20 H	156	-4.80	42.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	113.60 PK			1.39 V	274	81.50	32.10
1	*2437.00	108.60 AV			1.39 V	274	76.50	32.10
2	4874.00	54.80 PK	74.00	-19.20	1.57 V	117	18.70	36.10
2	**4874.00**	**52.70 AV**	**54.00**	**-1.30**	**1.57 V**	**117**	**16.60**	**36.10**
3	7311.00	52.30 PK	74.00	-21.70	1.22 V	54	9.80	42.50
3	7311.00	38.90 AV	54.00	-15.10	1.22 V	54	-3.60	42.50

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

MODE	Channel 11	**FREQUENCY RANGE**	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION & BANDWIDTH**	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**TESTED BY**	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

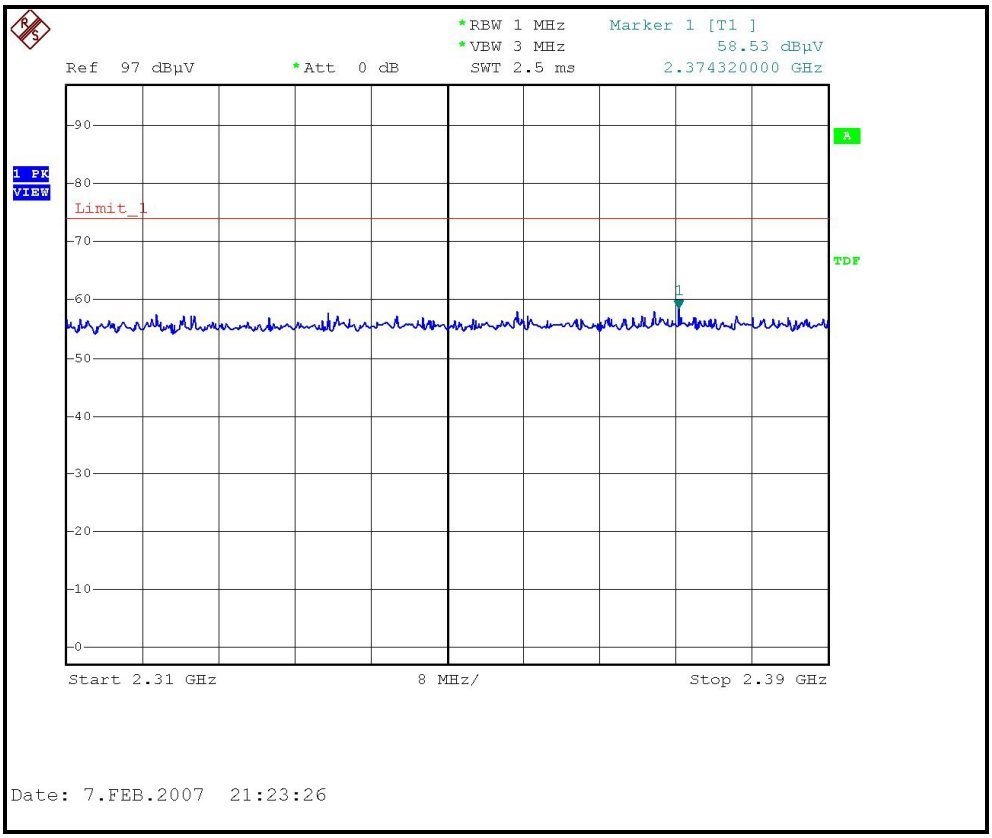
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.20 PK			1.25 H	112	74.00	32.20
1	*2462.00	99.30 AV			1.25 H	112	67.10	32.20
2	2483.50	58.00 PK	74.00	-16.00	1.25 H	112	25.70	32.30
2	2483.50	46.00 AV	54.00	-8.00	1.25 H	112	13.70	32.30
3	4924.00	48.30 PK	74.00	-25.70	1.54 H	66	12.10	36.20
3	4924.00	40.10 AV	54.00	-13.90	1.54 H	66	3.90	36.20
4	7386.00	51.30 PK	74.00	-22.70	1.10 H	276	8.50	42.80
4	7386.00	37.80 AV	54.00	-16.20	1.10 H	276	-5.00	42.80

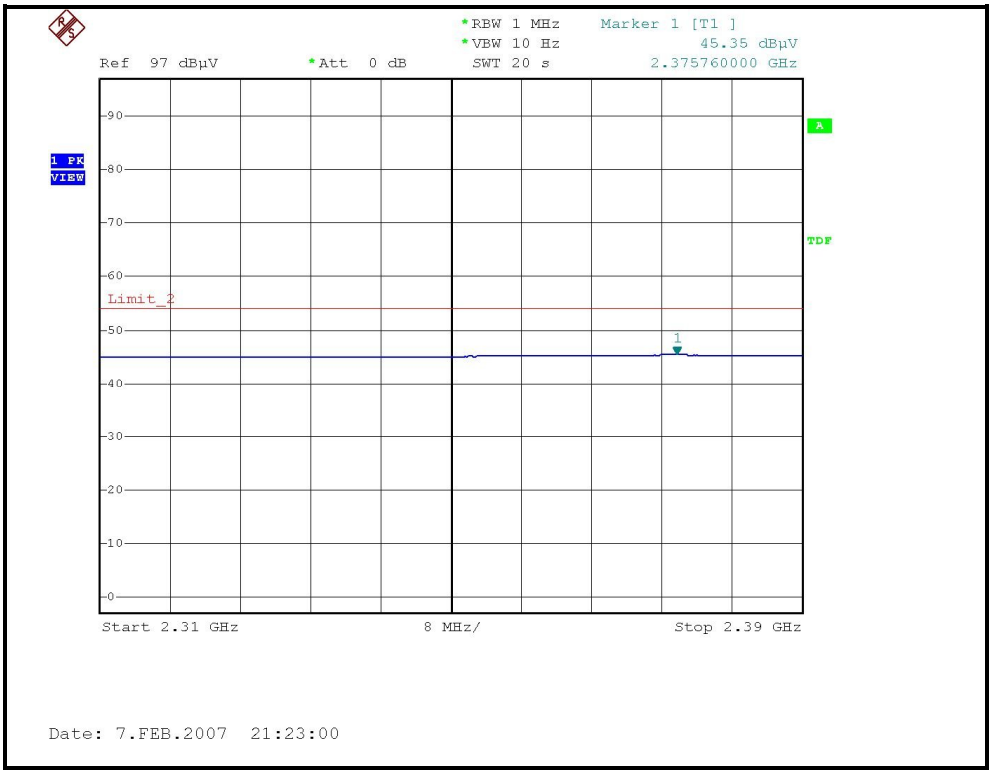
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	114.10 PK			1.43 V	247	81.90	32.20
1	*2462.00	107.40 AV			1.43 V	247	75.20	32.20
2	2483.50	67.10 PK	74.00	-6.90	1.43 V	247	34.90	32.30
2	2483.50	49.90 AV	54.00	-4.10	1.43 V	247	17.60	32.30
3	4924.00	49.70 PK	74.00	-24.30	1.09 V	352	13.50	36.20
3	4924.00	43.90 AV	54.00	-10.10	1.09 V	352	7.70	36.20
4	7386.00	51.40 PK	74.00	-22.60	1.11 V	123	8.60	42.80
4	7386.00	37.90 AV	54.00	-16.10	1.11 V	123	-4.90	42.80

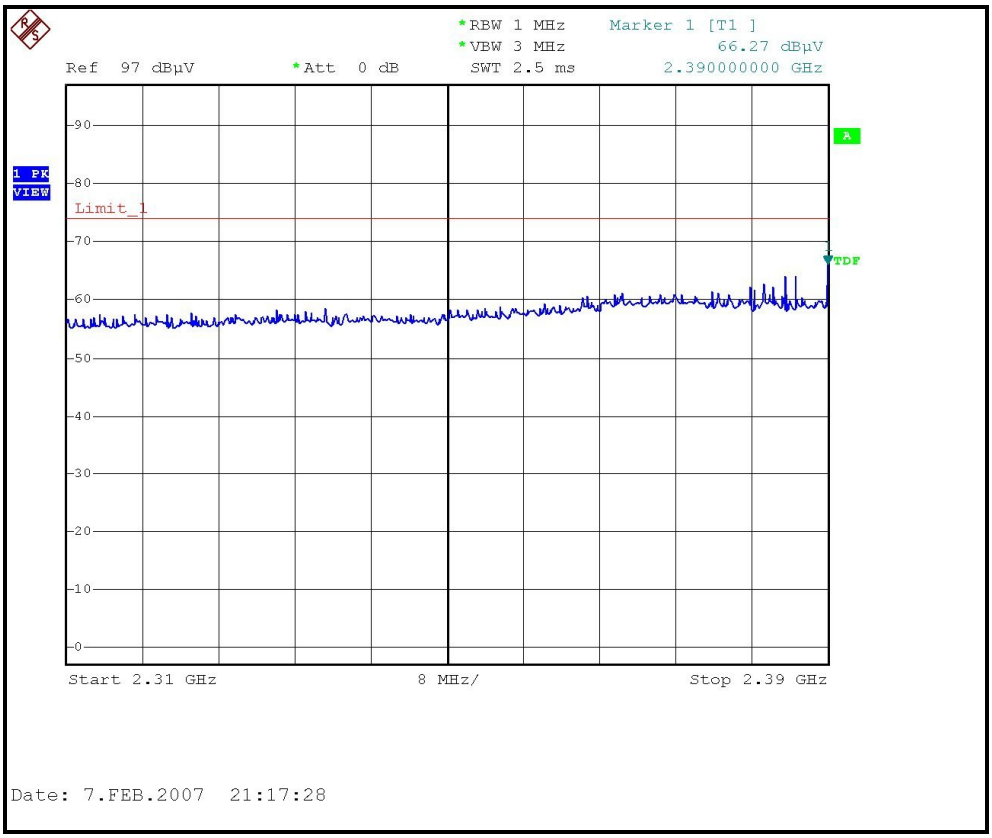
REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

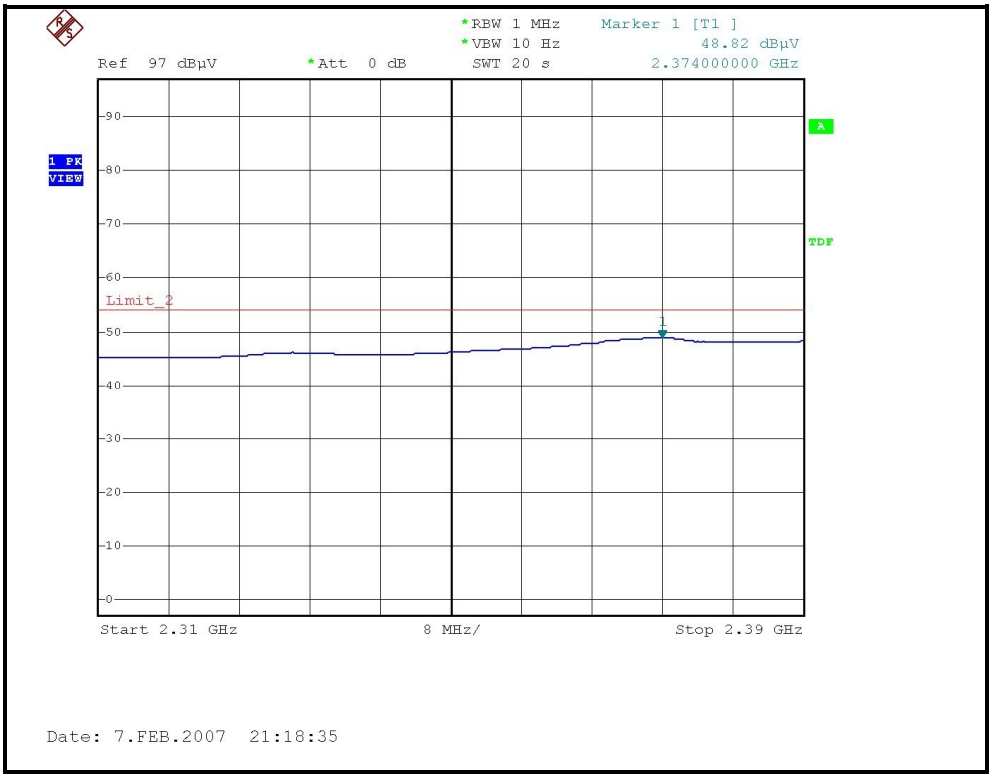
RESTRICTED BANDEDGE (802.11b MODE,CH1, HORIZONTAL)



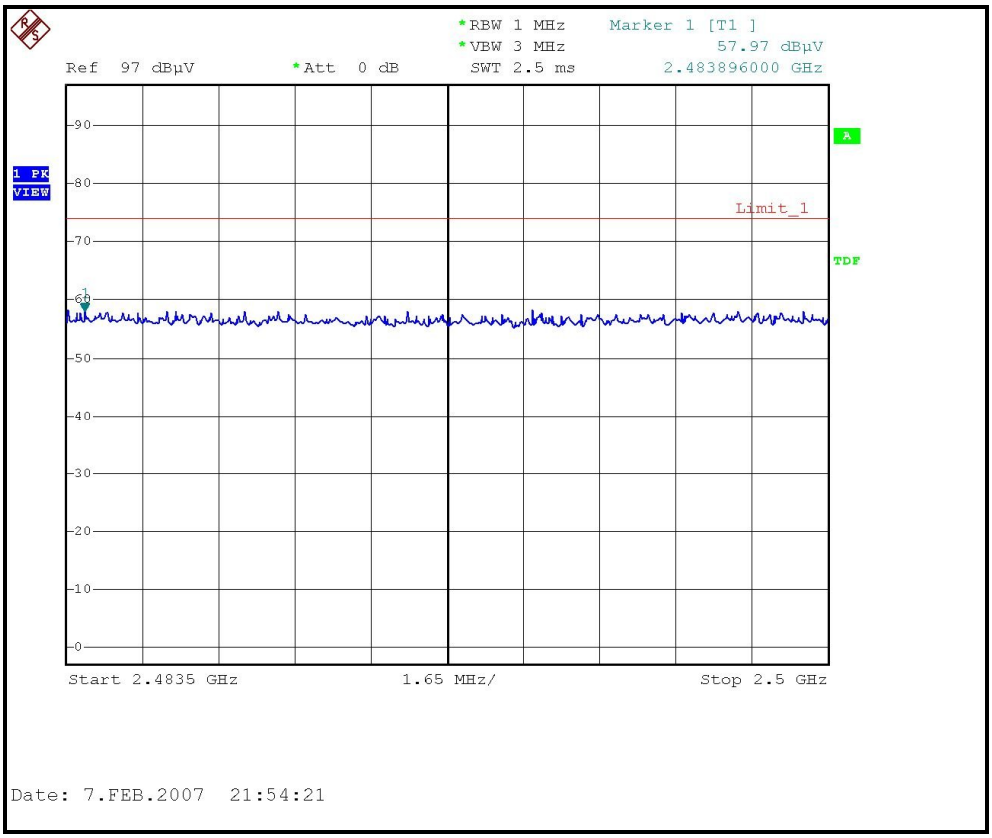


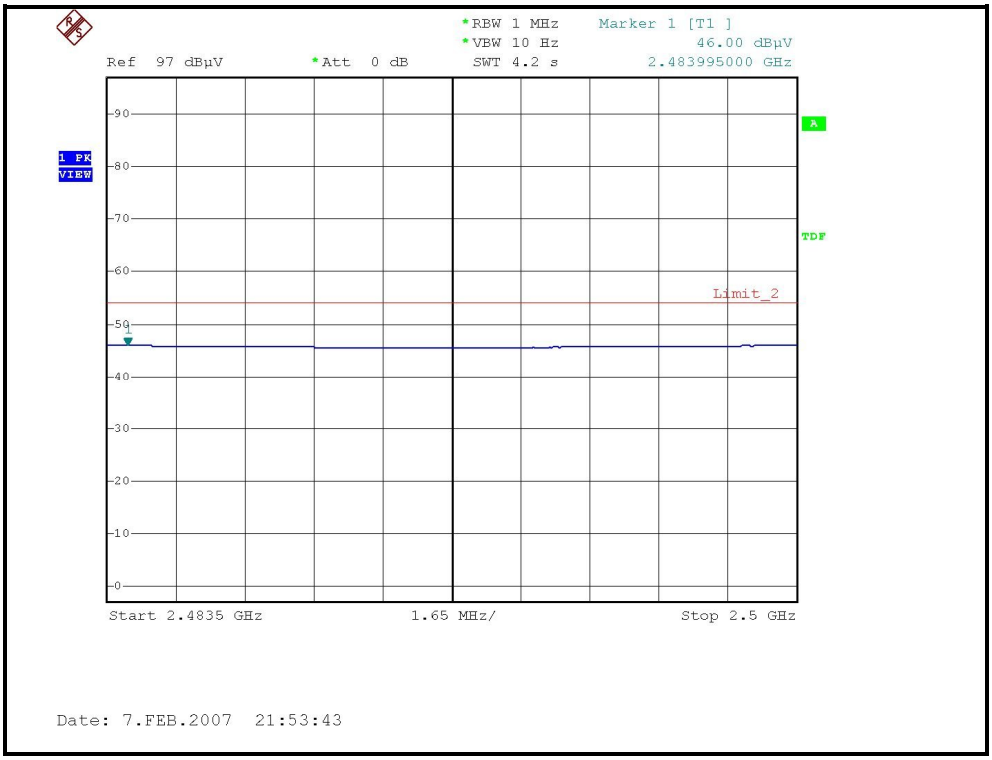
RESTRICTED BANDEDGE (802.11b MODE,CH1, VERTICAL)



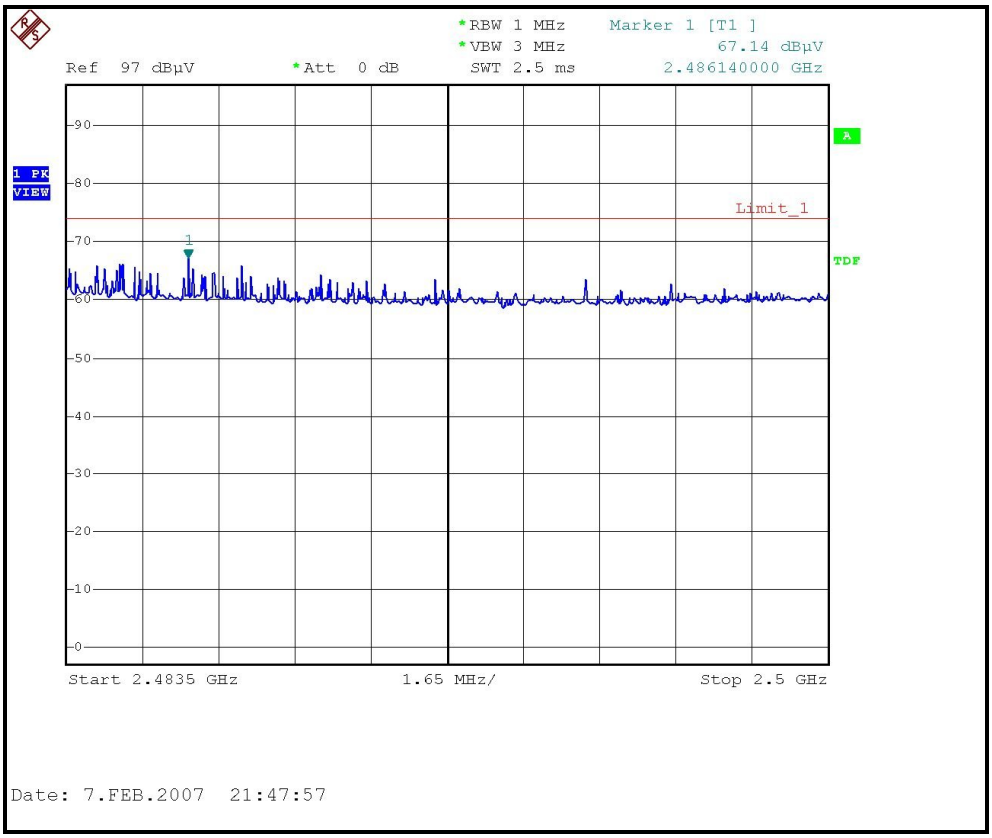


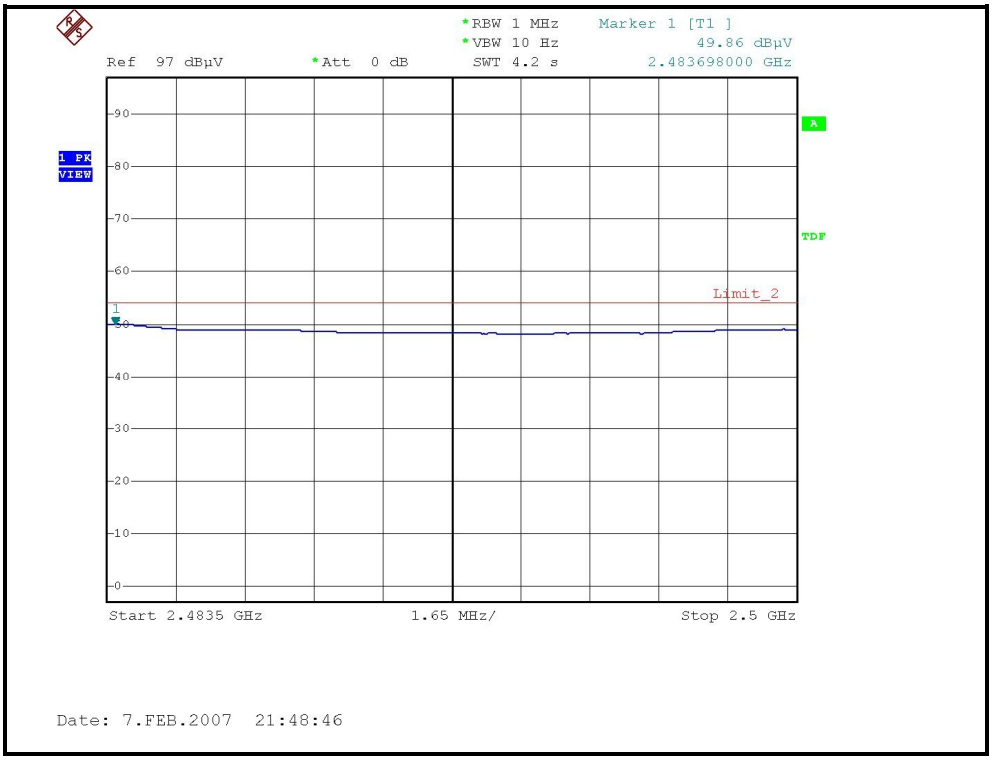
RESTRICTED BANDEDGE (802.11b MODE,CH11, HORIZONTAL)





RESTRICTED BANDEDGE (802.11b MODE,CH11, VERTICAL)





802.11g OFDM modulation

MODE	Channel 1	**FREQUENCY RANGE**	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION & BANDWIDTH**	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**TESTED BY**	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.60 PK	74.00	-15.40	1.46 H	339	26.70	31.90
1	2390.00	45.70 AV	54.00	-8.30	1.46 H	339	13.80	31.90
2	*2412.00	101.00 PK			1.46 H	339	69.00	32.00
2	*2412.00	91.00 AV			1.46 H	339	59.00	32.00
3	4824.00	51.10 PK	74.00	-22.90	1.38 H	206	15.10	36.00
3	4824.00	46.30 AV	54.00	-7.70	1.38 H	206	10.40	36.00
4	7236.00	52.20 PK	74.00	-21.80	1.10 H	211	9.90	42.20
4	7236.00	37.00 AV	54.00	-17.00	1.10 H	211	-5.20	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.90 PK	74.00	-13.10	1.37 V	272	29.00	31.90
1	2390.00	48.50 AV	54.00	-5.50	1.37 V	272	16.60	31.90
2	*2412.00	107.90 PK			1.37 V	272	75.90	32.00
2	*2412.00	98.10 AV			1.37 V	272	66.10	32.00
3	4824.00	51.40 PK	74.00	-22.60	1.60 V	290	15.40	36.00
3	4824.00	47.30 AV	54.00	-6.70	1.60 V	290	11.40	36.00
4	7236.00	51.50 PK	74.00	-22.50	1.53 V	324	9.30	42.20
4	7236.00	38.00 AV	54.00	-16.00	1.53 V	324	-4.30	42.20

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

MODE	Channel 6	**FREQUENCY RANGE**	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION & BANDWIDTH**	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**TESTED BY**	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	105.80 PK			1.49 H	115	73.60	32.10
1	*2437.00	95.70 AV			1.49 H	115	63.60	32.10
2	4874.00	51.30 PK	74.00	-22.70	1.40 H	202	15.20	36.10
2	4874.00	45.50 AV	54.00	-8.50	1.40 H	202	9.40	36.10
3	7311.00	51.90 PK	74.00	-22.10	1.11 H	241	9.40	42.50
3	7311.00	38.00 AV	54.00	-16.00	1.11 H	241	-4.50	42.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	112.00 PK			1.36 V	263	79.80	32.10
1	*2437.00	101.60 AV			1.36 V	263	69.50	32.10
2	4874.00	55.10 PK	74.00	-18.90	1.43 V	116	19.00	36.10
2	4874.00	50.20 AV	54.00	-3.80	1.43 V	116	14.10	36.10
3	7311.00	52.40 PK	74.00	-21.60	1.02 V	94	9.90	42.50
3	7311.00	38.30 AV	54.00	-15.70	1.02 V	94	-4.30	42.50

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

MODE	Channel 11	**FREQUENCY RANGE**	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION & BANDWIDTH**	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 970hPa	**TESTED BY**	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

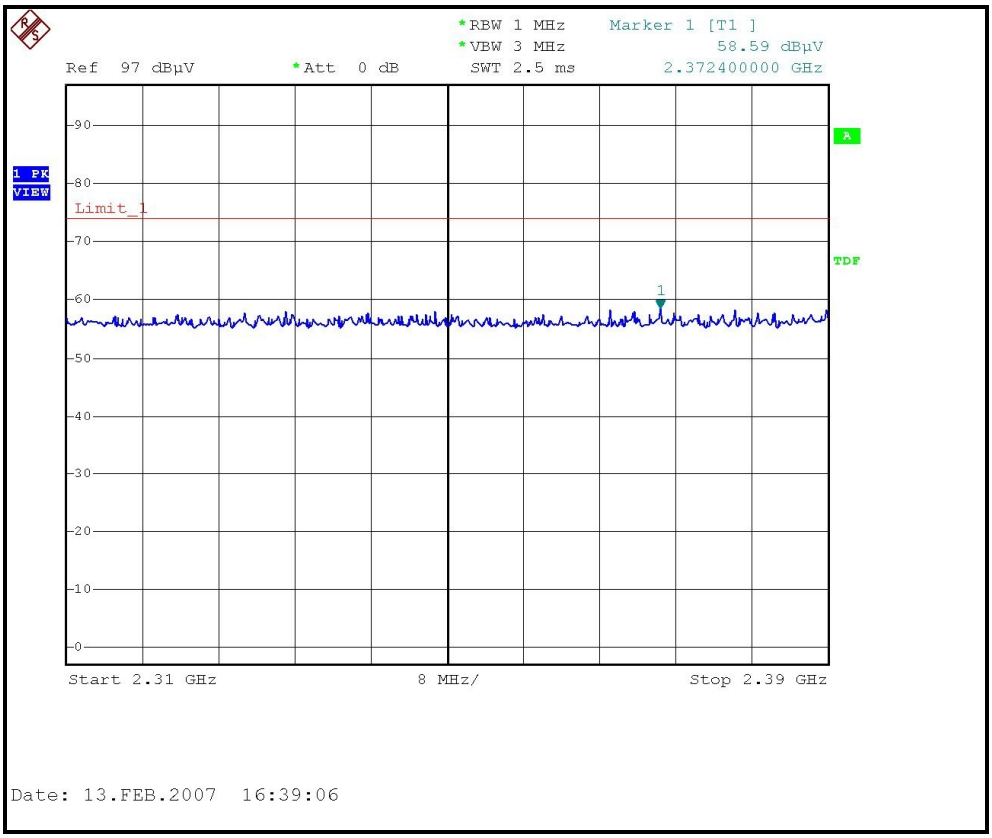
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	100.40 PK			1.18 H	112	68.20	32.20
1	*2462.00	89.70 AV			1.18 H	112	57.50	32.20
2	2483.50	58.50 PK	74.00	-15.50	1.18 H	112	26.30	32.30
2	2483.50	45.80 AV	54.00	-8.20	1.18 H	112	13.50	32.30
3	4924.00	50.10 PK	74.00	-23.90	1.55 H	205	13.90	36.20
3	4924.00	44.10 AV	54.00	-9.90	1.55 H	205	7.90	36.20
4	7386.00	51.30 PK	74.00	-22.70	1.02 H	111	8.50	42.80
4	7386.00	37.60 AV	54.00	-16.40	1.02 H	111	-5.20	42.80

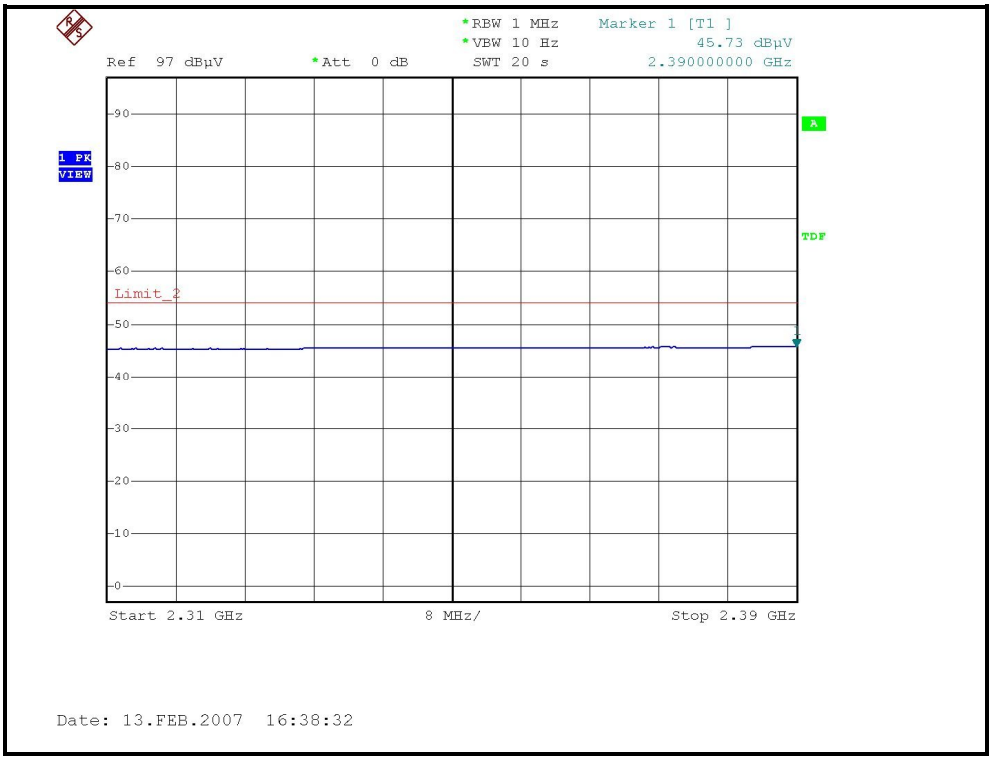
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	108.80 PK			1.29 V	174	76.60	32.20
1	*2462.00	98.30 AV			1.29 V	174	66.10	32.20
2	2483.50	60.40 PK	74.00	-13.60	1.29 V	174	28.10	32.30
2	2483.50	47.50 AV	54.00	-6.50	1.29 V	174	15.20	32.30
3	4924.00	53.00 PK	74.00	-21.00	1.26 V	117	16.80	36.20
3	4924.00	49.60 AV	54.00	-4.40	1.26 V	117	13.40	36.20
4	7386.00	51.80 PK	74.00	-22.20	1.21 V	241	9.00	42.80
4	7386.00	38.30 AV	54.00	-15.70	1.21 V	241	-4.50	42.80

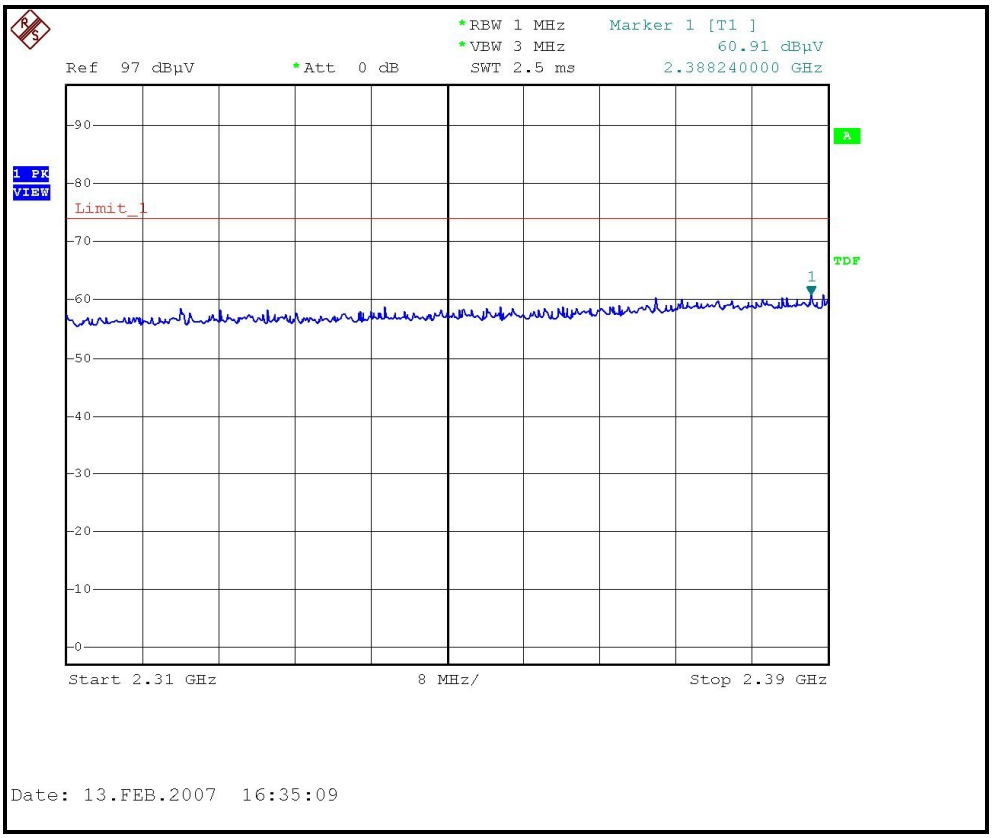
REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

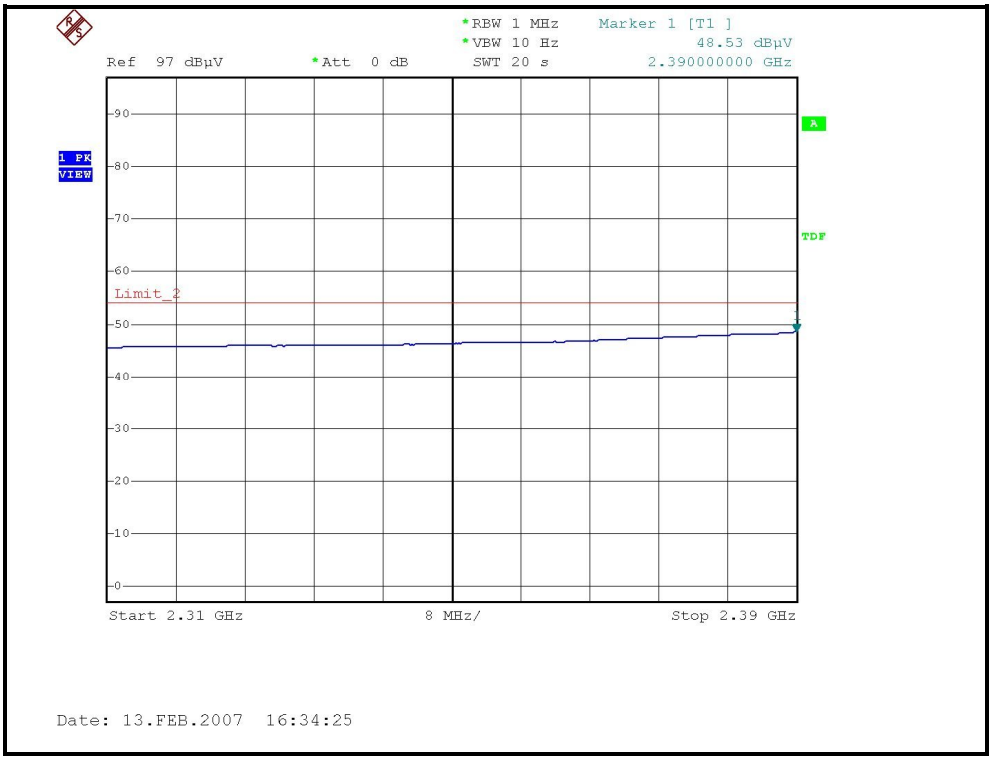
RESTRICTED BANDEDGE (802.11g MODE,CH1, HORIZONTAL)



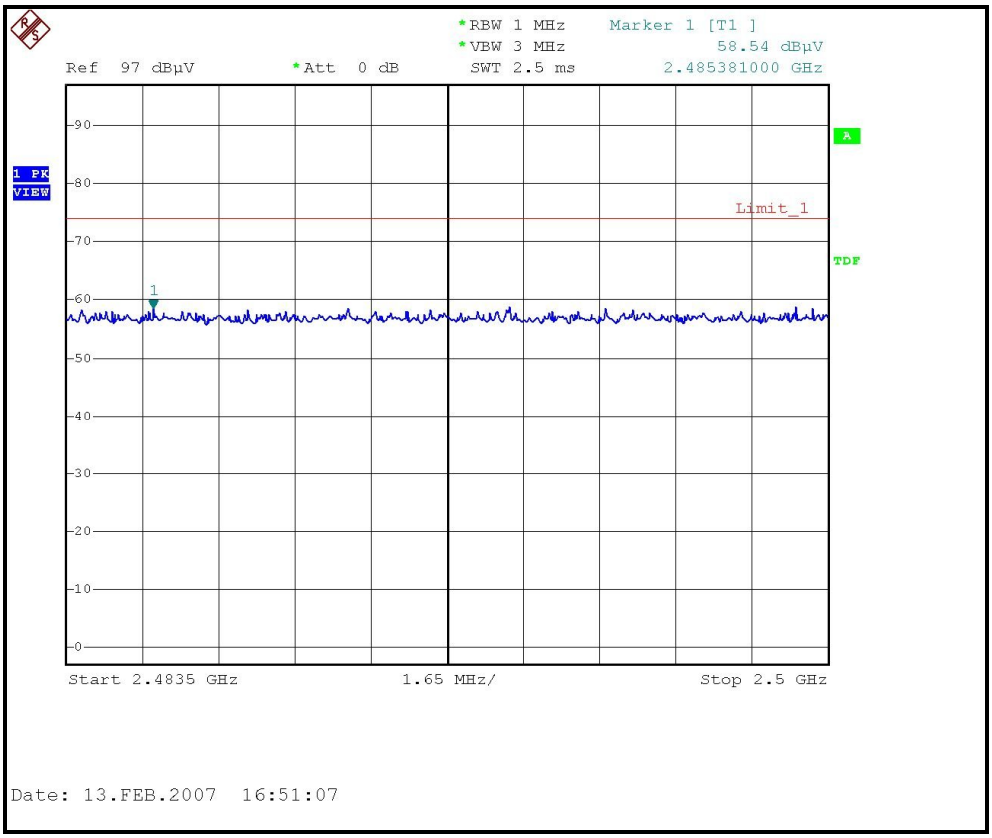


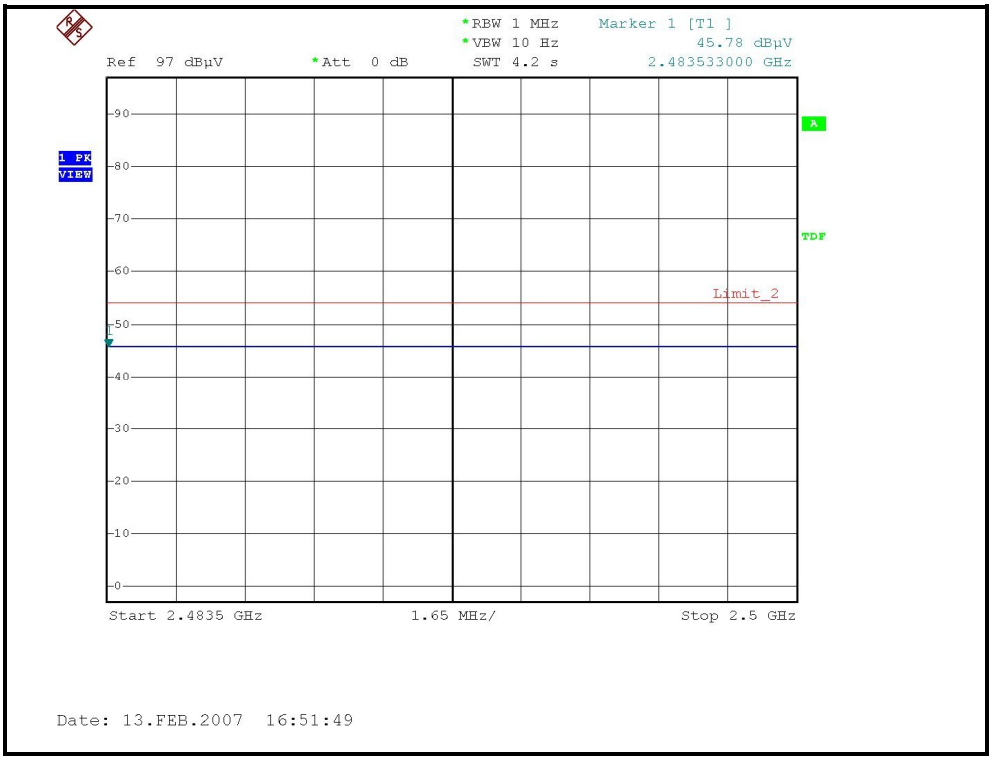
RESTRICTED BANDEDGE (802.11g MODE,CH1, VERTICAL)



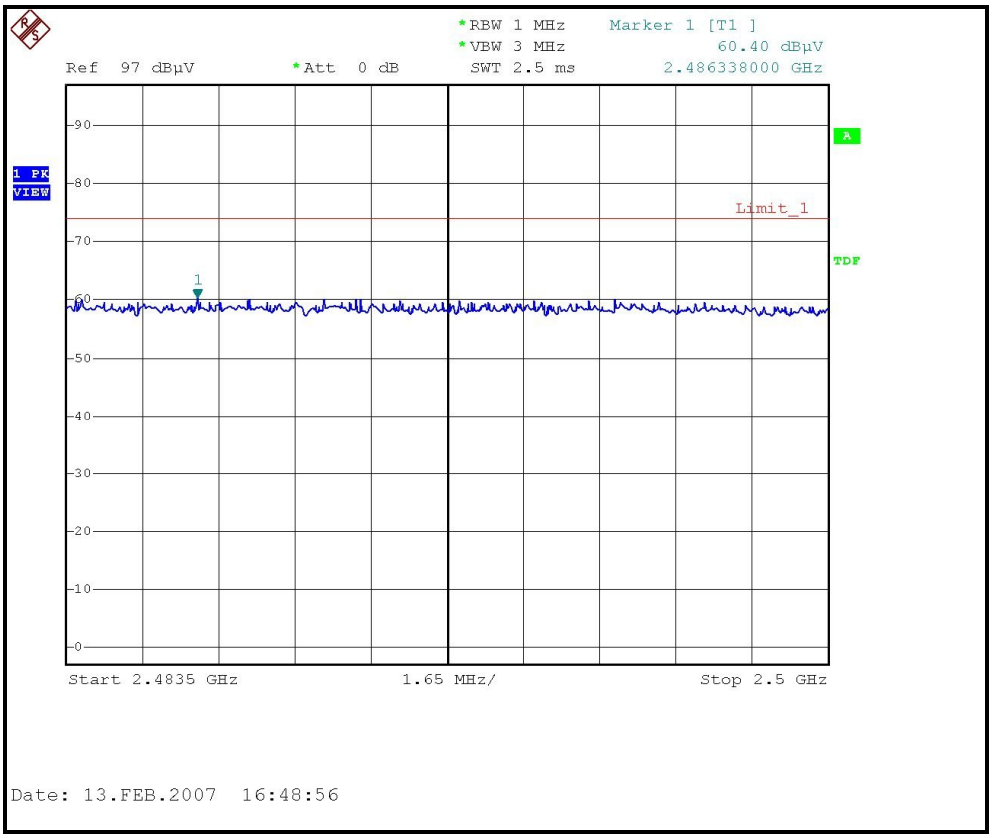


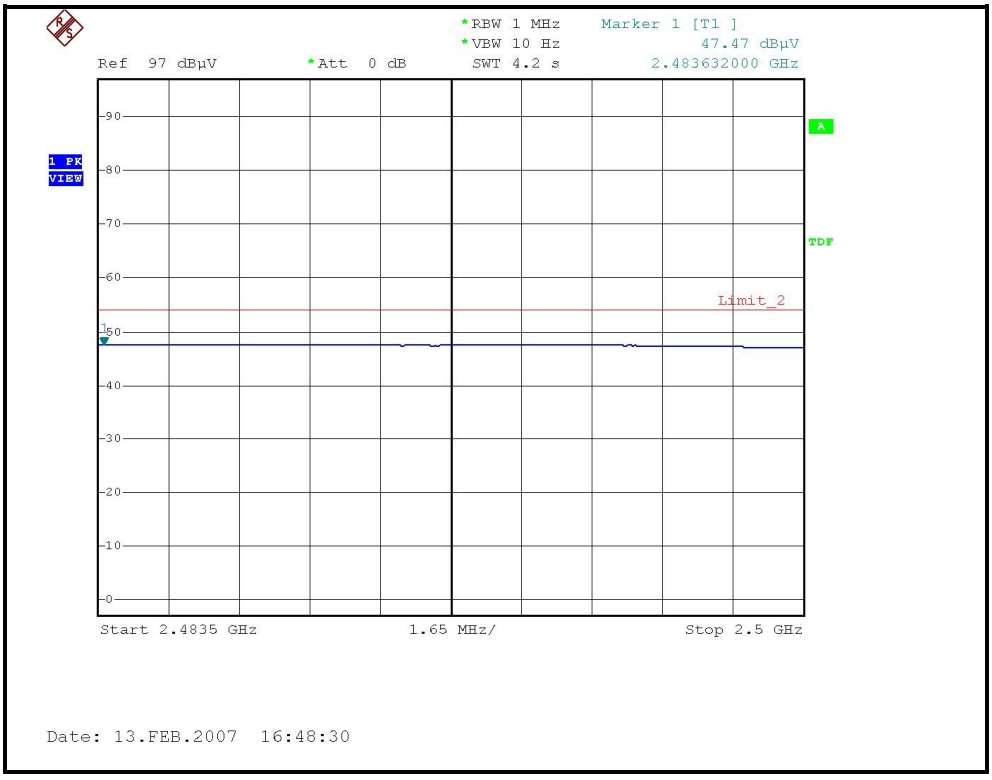
RESTRICTED BANDEDGE (802.11g MODE,CH11, HORIZONTAL)





RESTRICTED BANDEDGE (802.11g MODE,CH11, VERTICAL)





4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Analyzer	FSP40	100037	Aug. 15, 2007

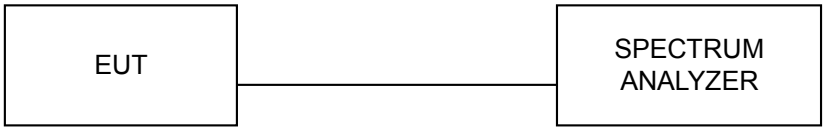
NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.3.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

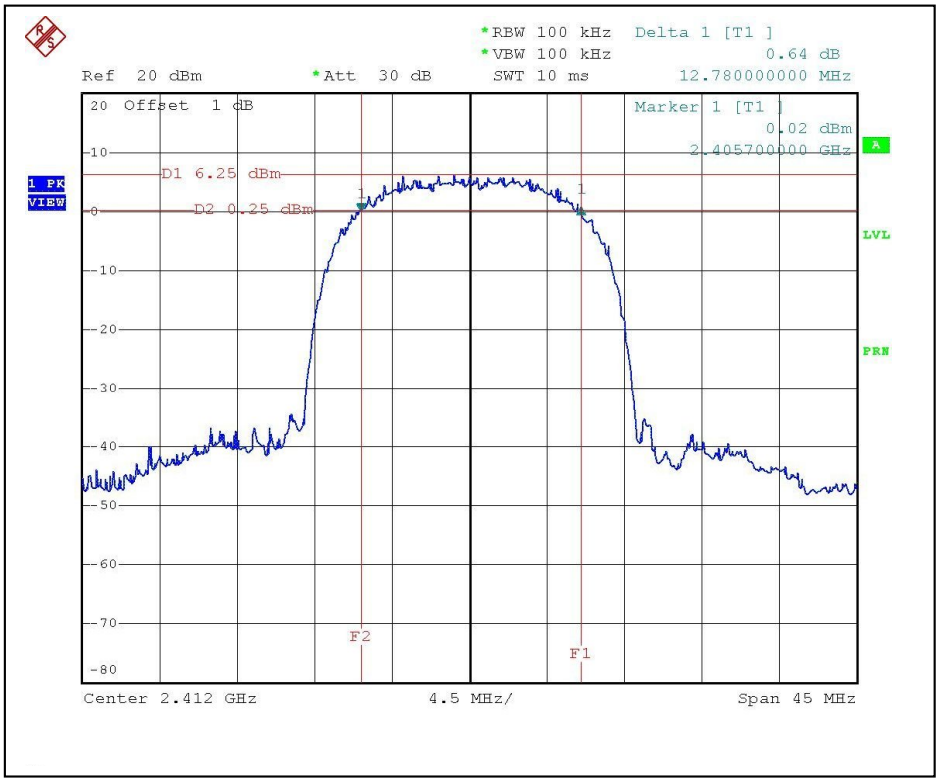
4.3.6 TEST RESULTS

802.11b DSSS modulation

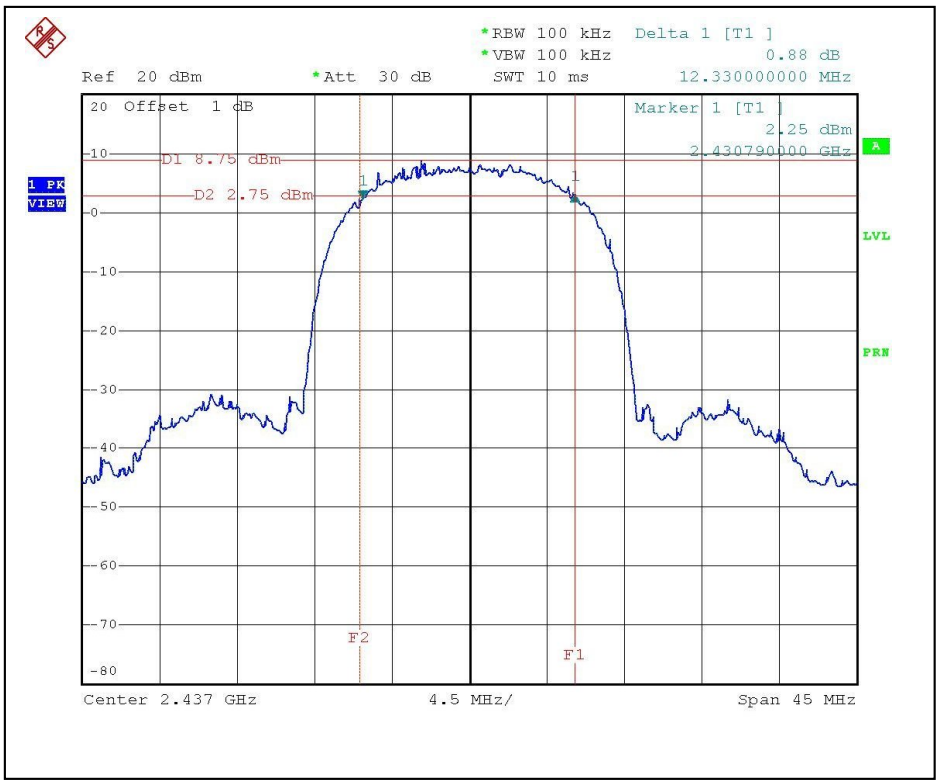
MODULATION TYPE	CCK	**TRANSFER RATE**	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	18deg. C, 62%RH, 970hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.78	0.5	PASS
6	2437	12.33	0.5	PASS
11	2462	12.42	0.5	PASS

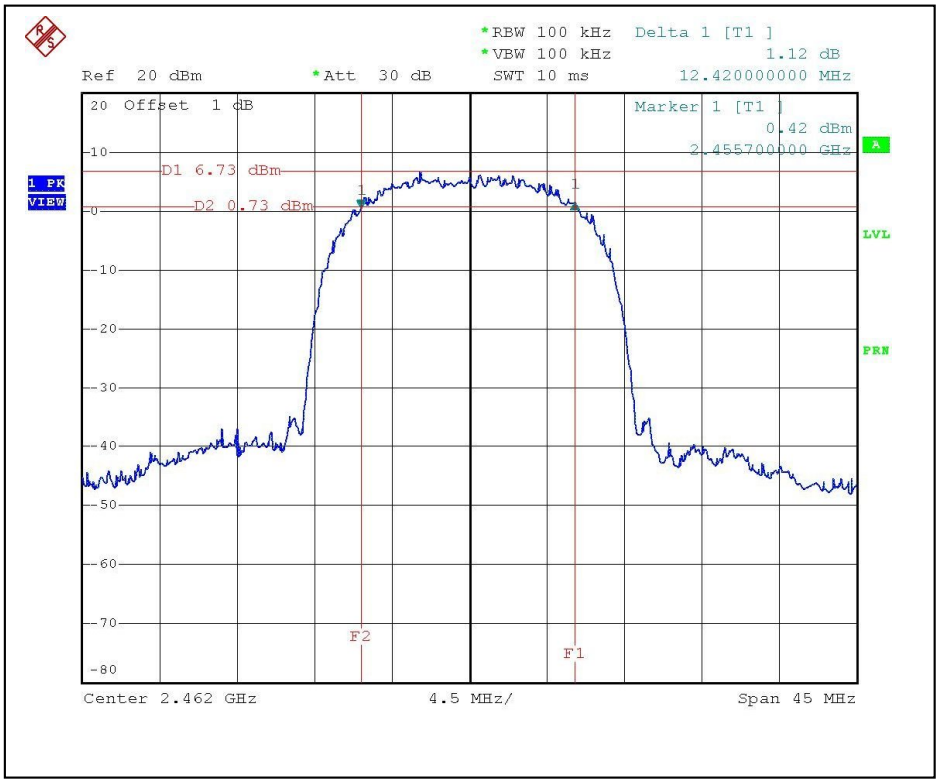
CH1


*RBW 100 kHz
Delta 1 [T1]
*VBW 100 kHz
0.64 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
12.780000000 MHz
20 Offset 1 dB
Marker 1 [T1]
0.02 dBm
2.405700000 GHz
D1 6.25 dBm
D2 0.25 dBm
1 PK VIEW
LVL
PRN
F2
F1
Center 2.412 GHz
4.5 MHz/
Span 45 MHz

CH6


*RBW 100 kHz
Delta 1 [T1]
*VBW 100 kHz
0.88 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
12.330000000 MHz
20 Offset 1 dB
Marker 1 [T1]
2.25 dBm
2.430790000 GHz
D1 8.75 dBm
D2 2.75 dBm
1 PK VIEW
LVL
PRN
F2
F1
Center 2.437 GHz
4.5 MHz/
Span 45 MHz

CH11

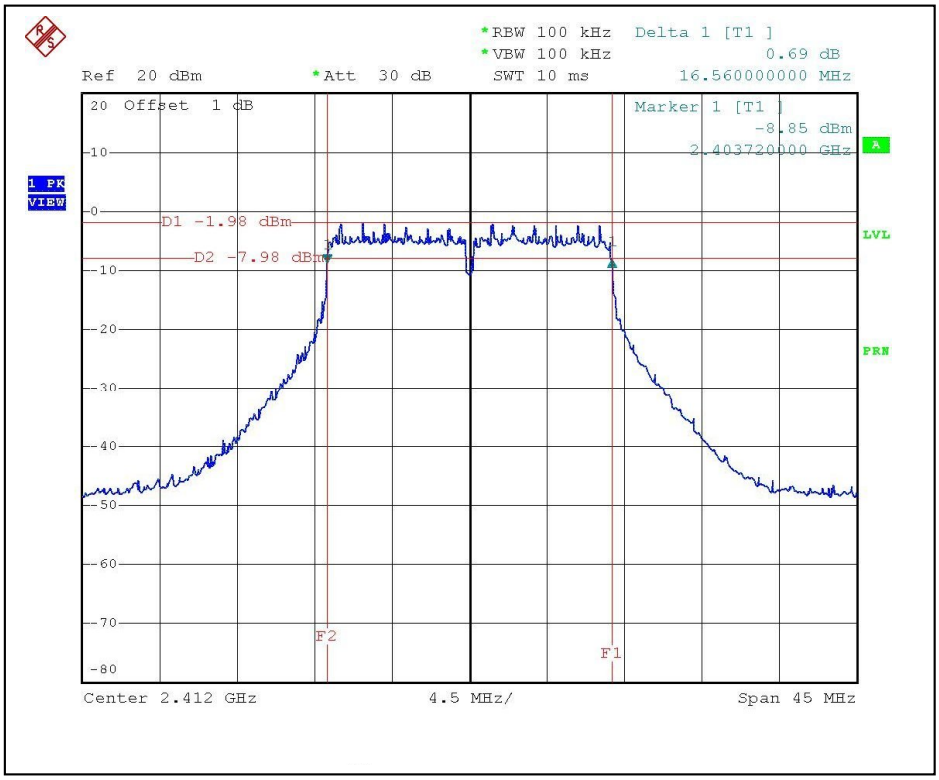

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
1.12 dB
12.420000000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 1 dB
Marker 1 [T1]
0.42 dBm
2.455700000 GHz
D1 6.73 dBm
D2 0.73 dBm
1 PK
VIEW
LVL
PRN
F2
F1
Center 2.462 GHz
4.5 MHz/
Span 45 MHz

802.11g OFDM modulation

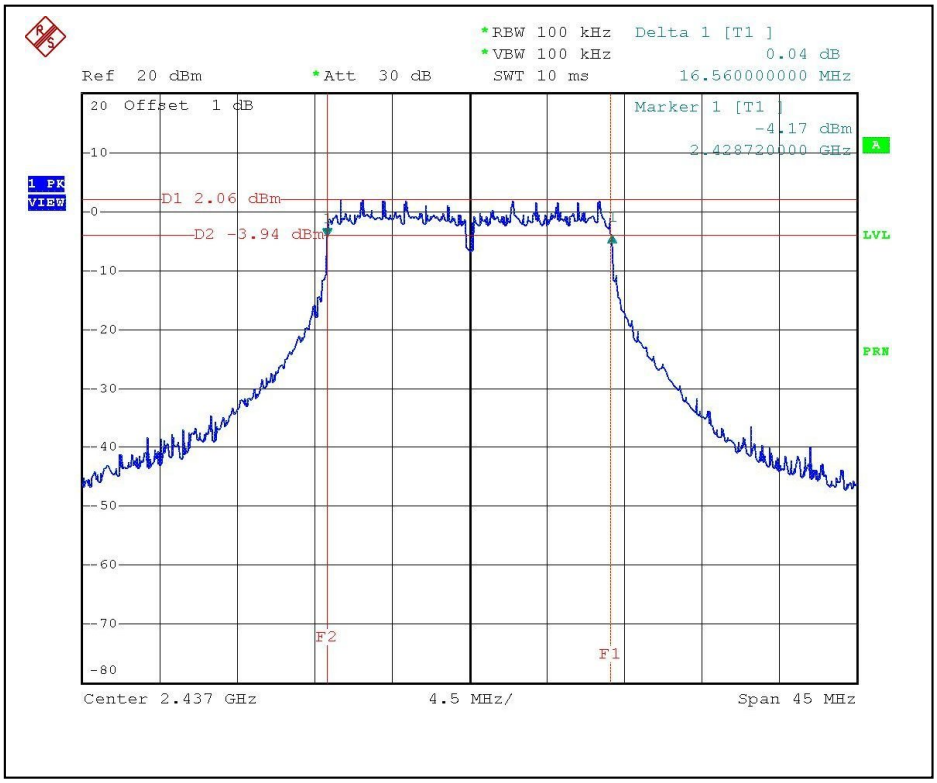
MODULATION TYPE	BPSK	**TRANSFER RATE**	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	18deg. C, 62%RH, 970hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.56	0.5	PASS
6	2437	16.56	0.5	PASS
11	2462	15.56	0.5	PASS

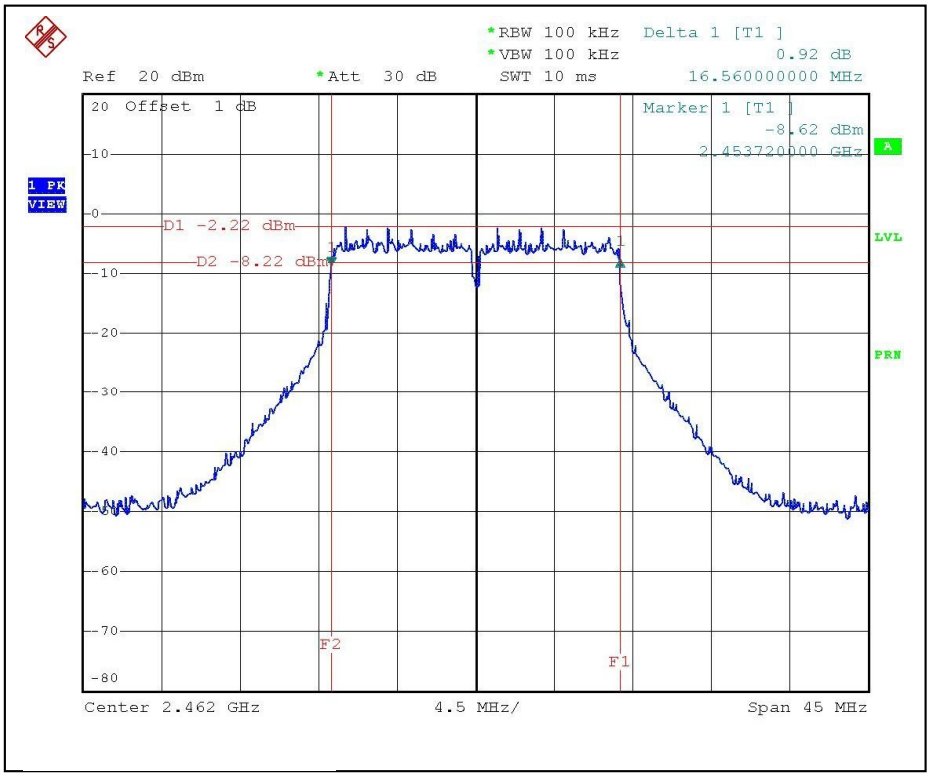
CH1


*RBW 100 kHz
Delta 1 [T1]
*VBW 100 kHz
0.69 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
16.560000000 MHz
20 Offset 1 dB
Marker 1 [T1]
-8.85 dBm
2.403720000 GHz
1 PK VIEW
D1 -1.98 dBm
D2 -7.98 dBm
LVL
PRN
F2
F1
Center 2.412 GHz
4.5 MHz/
Span 45 MHz

CH6


*RBW 100 kHz
Delta 1 [T1]
*VBW 100 kHz
0.04 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
16.560000000 MHz
20 Offset 1 dB
Marker 1 [T1]
-4.17 dBm
2.428720000 GHz
1 PK VIEW
D1 2.06 dBm
D2 -3.94 dBm
LVL
PRN
F2
F1
Center 2.437 GHz
4.5 MHz/
Span 45 MHz

CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 10 ms
Delta 1 [T1]
0.92 dB
16.560000000 MHz
20 Offset 1 dB
Marker 1 [T1]
-8.62 dBm
2.453720000 GHz
1 PK
VIEW
A
LVL
PRN
D1 -2.22 dBm
D2 -8.22 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
F2
F1
Center 2.462 GHz
4.5 MHz/
Span 45 MHz