FCC TEST REPORT

REPORT NO.: RF920418H07
MODEL NO.: SMC2635W, WN3304B
RECEIVED: Apr. 18, 2003
TESTED: Apr. 21, 2003

APPLICANT: Accton Technology Corporation

ADDRESS: No.1, Creation Rd. III, Science-based Industrial Park, Hsinchu, Taiwan, R.O.C

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.

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Lab Code: 200376-0

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1 CERTIFICATION

PRODUCT :	PCMCIA Wireless Card
MODEL NO. :	SMC, Accton
BRAND :	SMC2635W, WN3304B
APPLICANT :	Accton Technology Corporation
STANDARDS :	47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility on Apr. 21, 2003. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY: _____ , **DATE:** *Apr. 30, 2003*
(Amanda Chu)

APPROVED BY: _____ , **DATE:** *Apr. 30, 2003*
(Eric Lin, Manager)

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 –14.62dBuV at 0.170MHz
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)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is –3.3dBuV at 0.2063MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	PCMCIA Wireless Card
MODEL NO.	SMC2635W, WN3304B
POWER SUPPLY	3.3VDC from host equipment
MODULATION TYPE	DBPSK for 1Mbps DQPSK for 2Mbps CCK for 5.5/11Mbps
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	18.62dBm
DATA CABLE	NA
ANTENNA TYPE	Printed Antenna
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

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

Brand	Model
SMC	SMC2635W
Accton	WN3304B

2. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

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		

NOTE:

1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC CFR 47 Part 15, Subpart C. (15.247)

ANSI C63.4 : 1992

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 FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

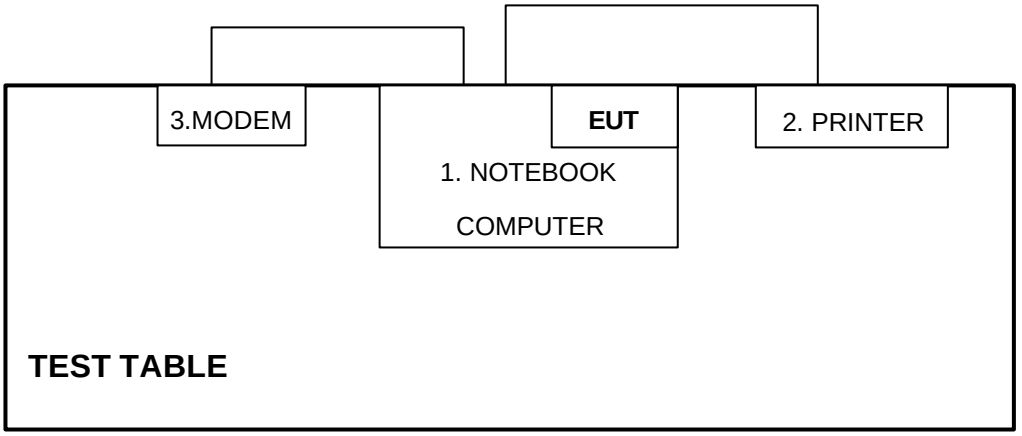
3.4 DESCRIPTION OF SUPPORT UNITS

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	PP01L	TW-09C748-12800-17Q-C504	FCC DoC
2	PRINTER	HP	C2642A	MY7961C1FQ	B94C2642X
3	MODEM	ACEEX	1414	0206026776	IFAXDM1414

No.	Signal cable description
1	NA
2	1.8 m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
3	1.0 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

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



NOTE: 1. Please refer to the photos of test configuration in Item 5 also.

4 TEST TYPES AND RESULTS

4.1 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. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.1 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	847124/029	Nov. 17, 2003
ROHDE & SCHWARZ LISN (for EUT)	ESHS-Z5	848773/004	Nov. 13, 2003
KYORITSU LISN (for peripheral)	KNW-407	8/1395/12	Jul. 23, 2003
RF Cable (JETBAO)	RG233/U	Cable_CA_01	Jul. 03, 2003
Terminator(for KYORITSU)	50	3	Apr. 11, 2004
Software	Cond-V2e	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. A.
3. The VCCI Con A Registration No. is C-817.

4.1.2 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT 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.

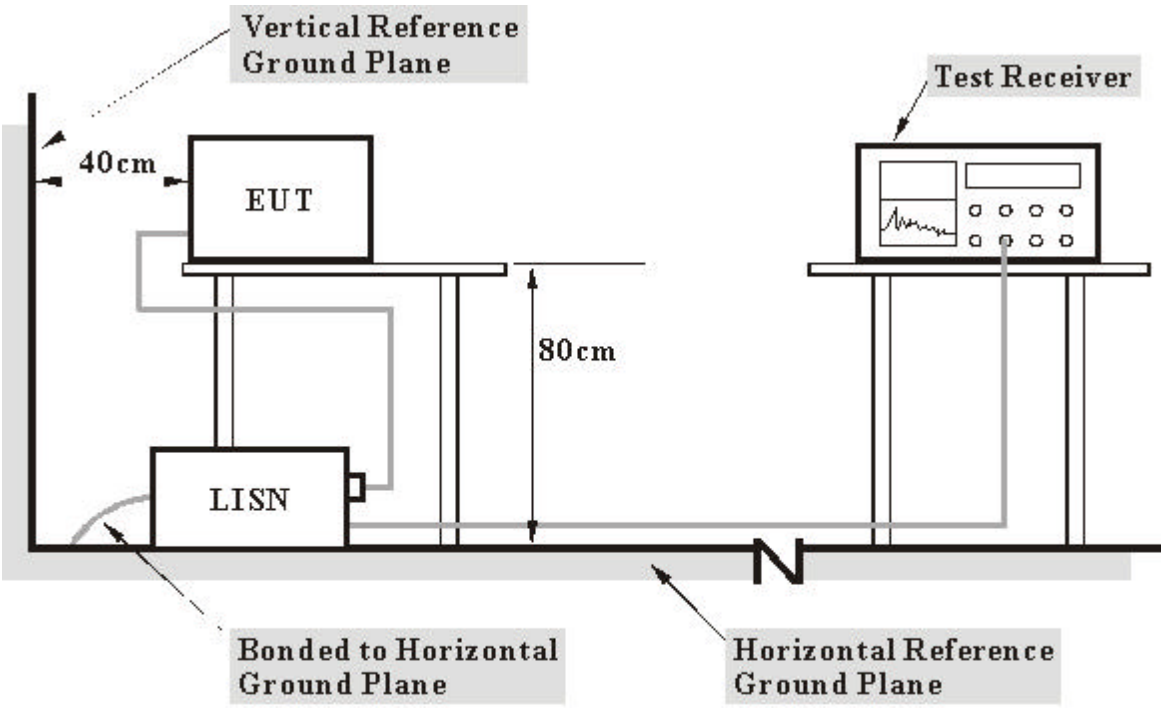
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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

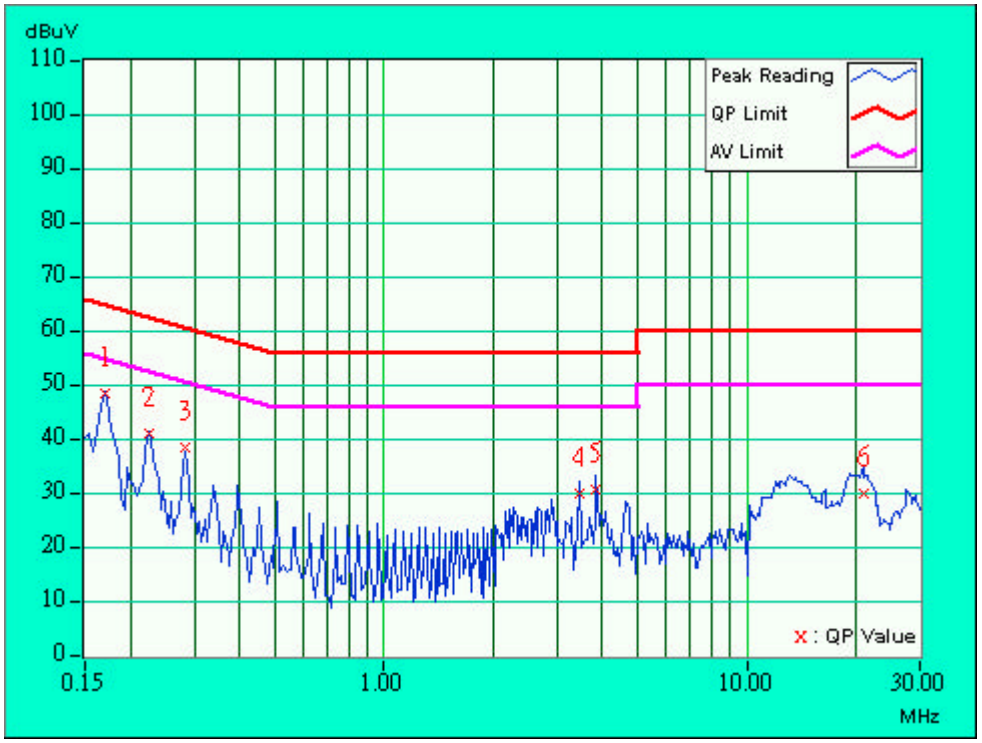
a. Plug the EUT into the support unit 1 (Notebook computer) which placed on a testing table.
b. The support unit 1 (Notebook computer) ran a test program to enable EUT under transmission condition continuously at specific channel frequency.

4.1.6 TEST RESULTS

EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 1	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**TESTED BY**	Tony Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	47.66	-	47.76	-	64.98	54.98	-17.22	-
2	0.224	0.10	39.89	-	39.99	-	62.66	52.66	-22.67	-
3	0.283	0.10	37.55	-	37.65	-	60.73	50.73	-23.08	-
4	3.457	0.17	29.04	-	29.21	-	56.00	46.00	-26.79	-
5	3.852	0.19	29.72	-	29.91	-	56.00	46.00	-26.09	-
6	20.941	1.04	28.87	-	29.91	-	60.00	50.00	-30.09	-

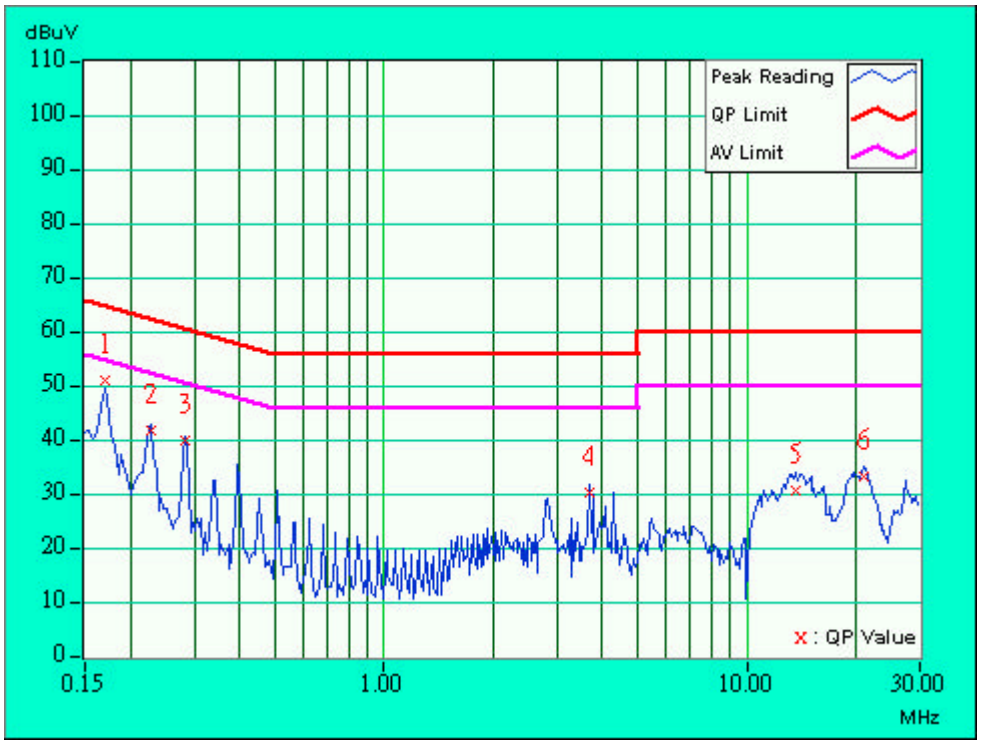
NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 1	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**TESTED BY**	Tony Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.170**	**0.10**	**50.26**	**-**	**50.36**	**-**	**64.98**	**54.98**	**-14.62**	**-**
2	0.228	0.10	41.28	-	41.38	-	62.52	52.52	-21.14	-
3	0.283	0.10	39.30	-	39.40	-	60.73	50.73	-21.33	-
4	3.684	0.18	29.77	-	29.95	-	56.00	46.00	-26.05	-
5	13.715	0.57	30.04	-	30.61	-	60.00	50.00	-29.39	-
6	21.074	0.74	32.52	-	33.26	-	60.00	50.00	-26.74	-

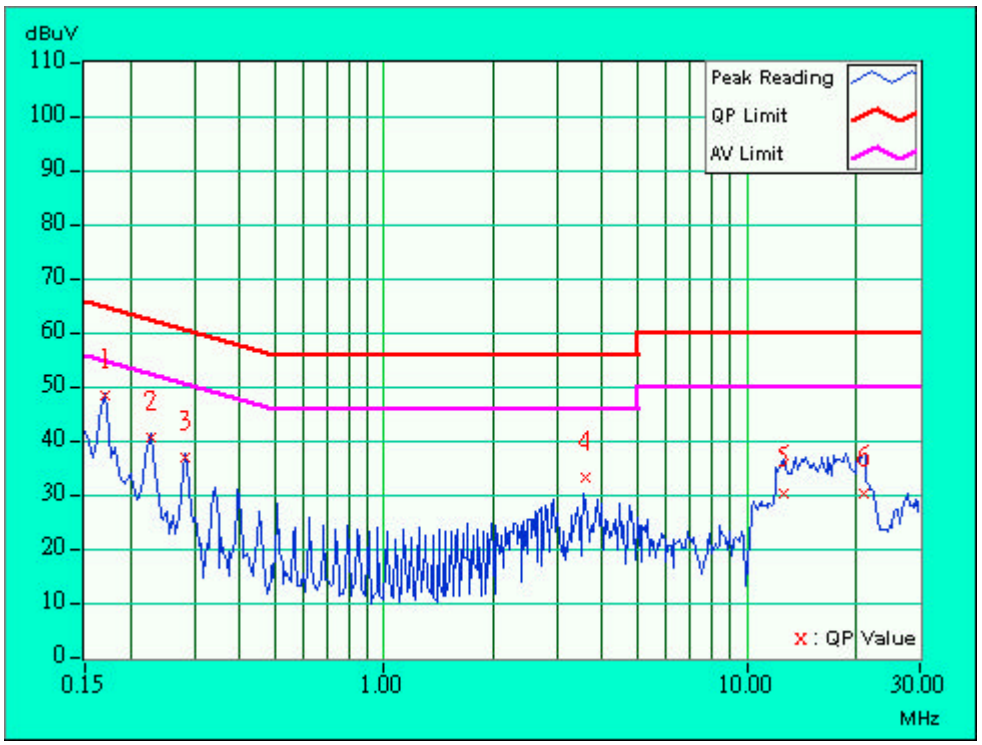
NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**TESTED BY**	Tony Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	47.38	-	47.48	-	64.98	54.98	-17.50	-
2	0.228	0.10	39.88	-	39.98	-	62.52	52.52	-22.54	-
3	0.283	0.10	36.09	-	36.19	-	60.73	50.73	-24.54	-
4	3.572	0.18	32.29	-	32.47	-	56.00	46.00	-23.53	-
5	12.585	0.70	29.26	-	29.96	-	60.00	50.00	-30.04	-
6	20.926	1.04	29.16	-	30.20	-	60.00	50.00	-29.80	-

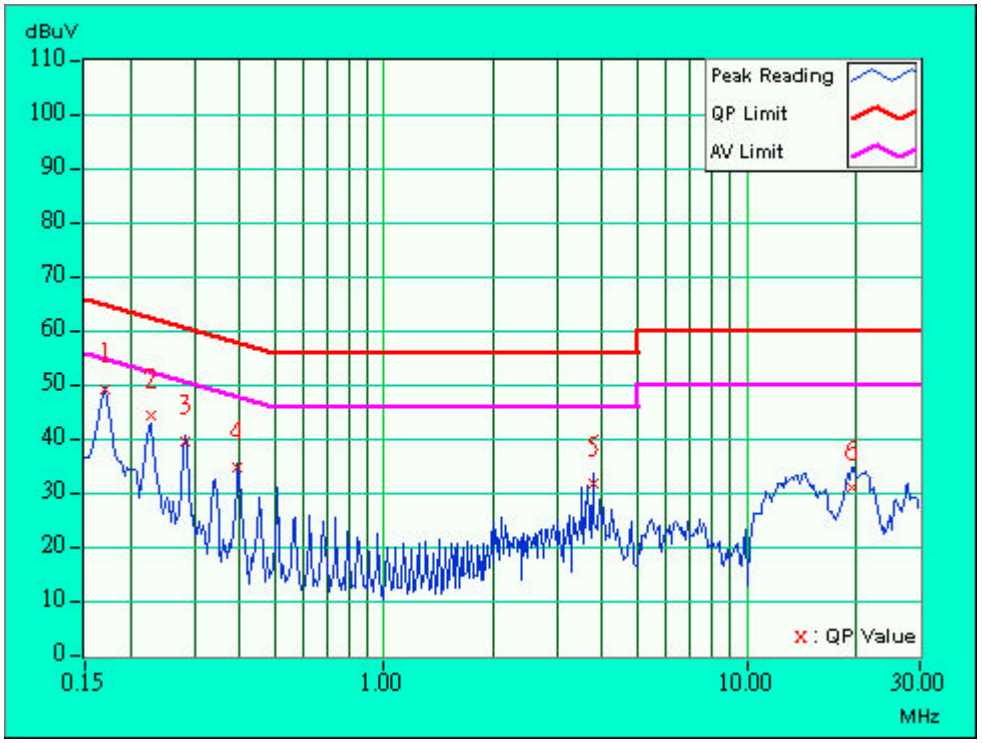
NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**TESTED BY**	Tony Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	48.40	-	48.50	-	64.98	54.98	-16.48	-
2	0.228	0.10	43.65	-	43.75	-	62.52	52.52	-18.77	-
3	0.283	0.10	39.06	-	39.16	-	60.73	50.73	-21.57	-
4	0.396	0.10	34.04	-	34.14	-	57.93	47.93	-23.79	-
5	3.797	0.19	31.02	-	31.21	-	56.00	46.00	-24.79	-
6	19.445	0.69	30.28	-	30.97	-	60.00	50.00	-29.03	-

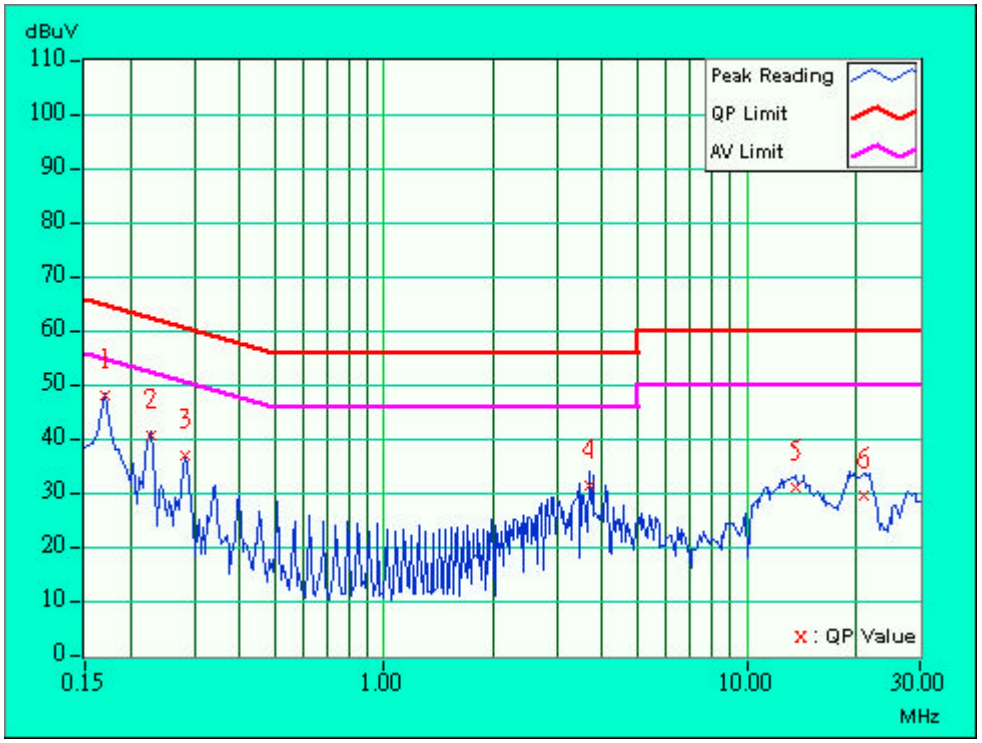
NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**TESTED BY**	Tony Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	47.26	-	47.36	-	64.98	54.98	-17.62	-
2	0.228	0.10	39.82	-	39.92	-	62.52	52.52	-22.60	-
3	0.283	0.10	36.03	-	36.13	-	60.73	50.73	-24.60	-
4	3.688	0.18	30.52	-	30.70	-	56.00	46.00	-25.30	-
5	13.719	0.75	30.00	-	30.75	-	60.00	50.00	-29.25	-
6	20.906	1.04	28.76	-	29.80	-	60.00	50.00	-30.20	-

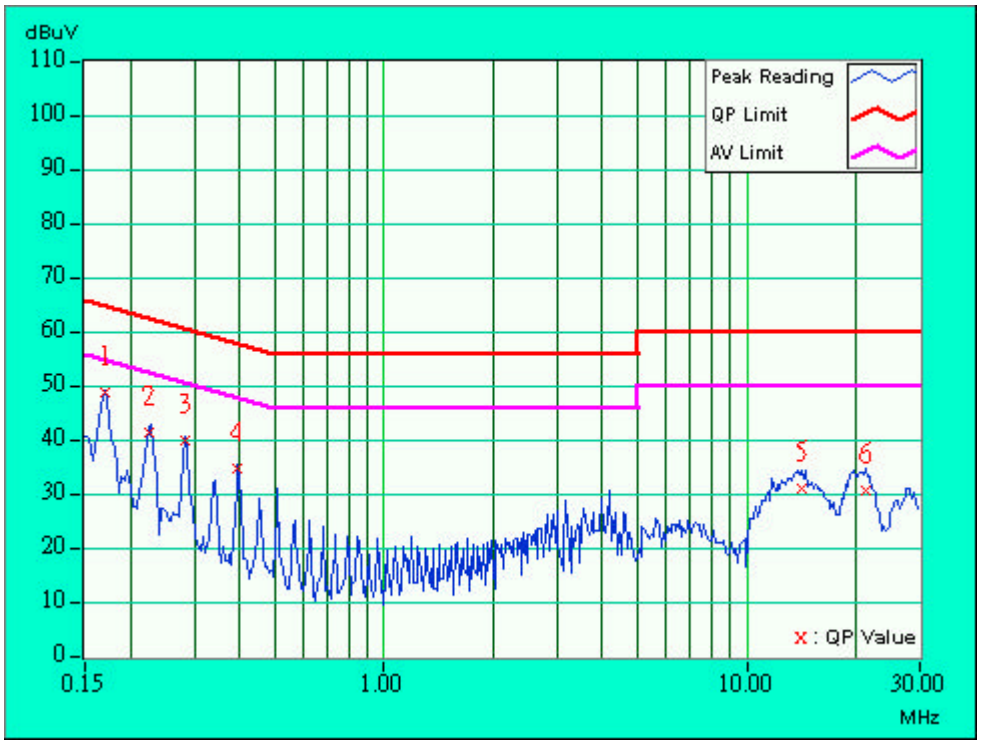
NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**TESTED BY**	Tony Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	48.10	-	48.20	-	64.98	54.98	-16.78	-
2	0.224	0.10	40.65	-	40.75	-	62.66	52.66	-21.91	-
3	0.283	0.10	39.28	-	39.38	-	60.73	50.73	-21.35	-
4	0.396	0.10	34.04	-	34.14	-	57.93	47.93	-23.79	-
5	14.172	0.58	30.30	-	30.88	-	60.00	50.00	-29.12	-
6	21.320	0.75	30.17	-	30.92	-	60.00	50.00	-29.08	-

NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field Strength of Fundamental	
	uV/m	dBuV/m
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

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
HP Spectrum Analyzer	8594ER	3829U04676	Jul. 14, 2003
ADVANTEST Spectrum Analyzer	R3271A	85060311	May 21, 2003
CHASE RF Pre_Amplifier	CPA9232	1057	Apr. 24, 2004
HP Pre_Amplifier	8449B	3008A01281	June 27, 2003
ROHDE & SCHWARZ Test Receiver	ESVS 10	849231 /019	Nov. 03, 2003
CHASE Broadband Antenna	CBL6111c	2730	Jul 17, 2003
Schwarzbeck Horn_Antenna	BBHA9120-D1	D123	Jul. 31, 2003
SCHWARZBECK Tunable Dipole Antenna	UHAP	897	Mar. 07, 2005
SCHWARZBECK Tunable Dipole Antenna	VHAP	880	Mar. 07, 2005
RF Switches (ARNITSU)	CS-201	1565157	Jul. 29, 2003
RF CABLE (Chaintek) 1GHz-20GHz	Ak 9515-D	001	Aug, 20.2003
RF Cable(RICHTEC)	9913-30M	STCCAB-30M-1GHz-021	Nov. 5, 2003
Software	AS60P8	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 Tunable Dipole Antenna)and the calibrations are traceable to NML/ROC and NIST/USA.
2. * = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. C.
5. The FCC Site Registration No. is 656396.
6. The VCCI Site Registration No. is R-1626.

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 the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

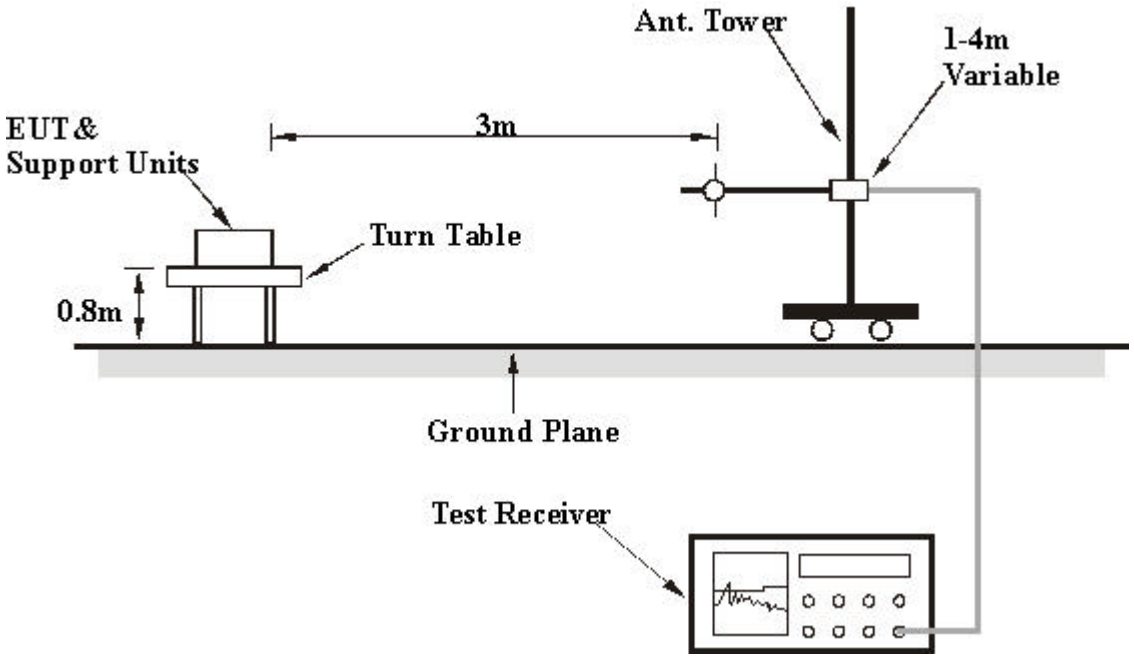
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 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 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 11	**FREQUENCY RANGE**	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24 deg. C, 57%RH, 974 hPa	**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	144.08	26.1 QP	43.50	-17.40	2.16 H	256	14.50	11.60
2	200.60	26.3 QP	43.50	-17.20	1.67 H	342	17.40	9.00
3	214.84	25.1 QP	43.50	-18.40	1.23 H	311	16.10	9.00
4	333.00	33.8 QP	46.00	-12.20	1.15 H	110	18.80	15.00
5	440.00	23.5 QP	46.00	-22.50	1.62 H	228	5.50	18.00
6	484.00	28.0 QP	46.00	-18.00	1.00 H	327	9.00	19.00
7	528.00	27.6 QP	46.00	-18.40	2.26 H	336	8.00	19.60
8	792.00	26.8 QP	46.00	-19.20	1.00 H	338	3.10	23.80
9	880.00	30.3 QP	46.00	-15.70	1.00 H	341	5.40	25.00
10	968.00	37.3 QP	54.00	-16.70	1.00 H	336	10.90	26.40

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	150.34	26.2 QP	43.50	-17.30	1.00 V	195	14.70	11.50
2	264.01	19.3 QP	46.00	-26.70	1.00 V	345	5.30	14.10
3	333.00	34.7 QP	46.00	-11.30	1.90 V	170	19.70	15.00
4	440.01	20.8 QP	46.00	-25.20	1.00 V	135	2.80	18.00
5	484.01	26.6 QP	46.00	-19.40	1.00 V	72	7.60	19.00
6	528.01	28.1 QP	46.00	-17.90	1.00 V	333	8.50	19.60
7	616.01	26.6 QP	46.00	-19.40	1.00 V	94	5.10	21.50
8	748.01	25.6 QP	46.00	-20.40	2.22 V	331	1.80	23.80
9	880.01	30.3 QP	46.00	-15.70	1.00 V	25	5.40	25.00
10	968.01	34.3 QP	54.00	-19.70	1.67 V	244	7.90	26.40

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
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

EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**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	2038.00	41.0 PK	74.00	-33.00	1.18 H	104	12.10	28.90
2	2390.00	54.6 PK	74.00	-19.40	1.38 H	102	20.80	33.80
2	2390.00	44.7 AV	54.00	-9.30	1.38 H	102	10.90	28.90
3	*2412.00	94.7 PK			1.47 H	130	64.80	29.90
3	*2412.00	91.7 AV			1.47 H	130	61.80	33.80
4	2493.00	43.1 PK	74.00	-30.90	1.63 H	100	8.70	34.50
5	4076.00	36.8 PK	74.00	-37.20	1.47 H	153	2.90	34.00
6	4824.00	44.9 PK	74.00	-29.10	1.55 H	132	8.70	36.20
7	7237.00	50.1 PK	74.00	-23.90	1.39 H	114	8.40	41.70

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	2038.00	50.5 PK	74.00	-23.50	1.14 V	43	21.60	28.90
2	2390.00	51.9 PK	74.00	-22.10	1.12 V	100	18.10	33.80
2	2390.00	43.9 AV	54.00	-10.10	1.12 V	100	10.10	28.90
3	*2412.00	94.7 PK			1.56 V	144	64.80	29.90
3	*2412.00	91.8 AV			1.56 V	144	61.90	33.80
4	2494.00	42.5 PK	74.00	-31.50	1.09 V	102	8.60	33.90
5	4076.00	39.8 PK	74.00	-34.20	1.52 V	251	5.90	34.00
6	4824.00	45.4 PK	74.00	-28.60	1.23 V	262	9.20	36.20
7	7236.00	50.8 PK	74.00	-23.20	1.09 V	253	9.10	41.70

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
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

EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**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	2063.00	46.2 PK	74.00	-27.80	1.15 H	241	17.20	29.10
2	2374.00	39.9 PK	74.00	-34.10	1.22 H	61	9.20	30.70
3	*2437.00	97.4 PK			1.00 H	101	67.40	30.00
3	*2437.00	95.1 AV			1.00 H	101	65.10	29.10
4	2492.00	44.2 PK	74.00	-29.80	1.62 H	102	9.20	35.00
5	4126.00	37.7 PK	74.00	-36.30	1.16 H	92	3.70	34.10
6	4874.00	38.8 PK	74.00	-35.20	1.49 H	56	2.40	36.50
7	7312.00	50.2 PK	74.00	-23.80	1.53 H	69	8.40	41.80

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	2063.00	51.2 PK	74.00	-22.80	1.12 V	21	22.10	29.10
1	**2063.00**	**50.7 AV**	**54.00**	**-3.30**	**1.12 V**	**21**	**21.70**	**29.10**
2	2371.00	43.0 PK	74.00	-31.00	1.48 V	100	12.30	30.70
3	*2437.00	97.4 PK			1.13 V	99	67.40	30.00
3	*2437.00	94.1 AV			1.13 V	99	64.10	30.70
4	2494.00	43.1 PK	74.00	-30.90	1.09 V	107	9.20	33.90
5	4126.00	39.4 PK	74.00	-34.60	1.98 V	72	5.40	34.10
6	4873.00	46.2 PK	74.00	-27.80	1.24 V	52	9.70	36.50
7	7313.00	50.2 PK	74.00	-23.80	1.03 V	62	8.40	41.80

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
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

EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
MODE	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 974 hPa	**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	2088.00	42.0 PK	74.00	-32.00	1.00 H	249	12.80	29.20
2	2358.00	46.5 PK	74.00	-27.50	1.61 H	265	15.90	30.60
3	*2463.00	97.8 PK			1.01 H	93	67.80	30.10
3	*2463.00	95.0 AV			1.01 H	93	64.90	29.20
4	2490.00	49.7 PK	74.00	-24.30	1.37 H	260	13.50	36.20
5	4176.00	38.2 PK	74.00	-35.80	4.00 H	240	4.10	34.20
6	4924.00	44.8 PK	74.00	-29.20	1.11 H	238	8.10	36.70
7	7387.00	46.2 PK	74.00	-27.80	1.65 H	304	4.40	41.80

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	2088.00	47.5 PK	74.00	-26.50	1.57 V	199	18.30	29.20
2	2360.00	52.4 PK	74.00	-21.60	1.00 V	251	21.80	30.60
2	2360.00	43.0 AV	54.00	-11.00	1.00 V	251	12.40	29.20
3	*2463.00	97.1 PK			1.19 V	125	67.00	30.10
3	*2463.00	92.9 AV			1.19 V	125	62.90	30.60
4	2490.00	48.3 PK	74.00	-25.70	1.11 V	258	12.10	36.20
5	4176.00	38.9 PK	74.00	-35.10	1.57 V	353	4.70	34.20
6	4924.00	53.3 PK	74.00	-20.70	1.36 V	259	16.70	36.70
6	4924.00	48.4 AV	54.00	-5.60	1.36 V	259	11.70	30.10
7	7388.00	48.9 PK	74.00	-25.10	1.19 V	260	7.10	41.80

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
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

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
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2003

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 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP

4.3.6 EUT OPERATING CONDITIONS

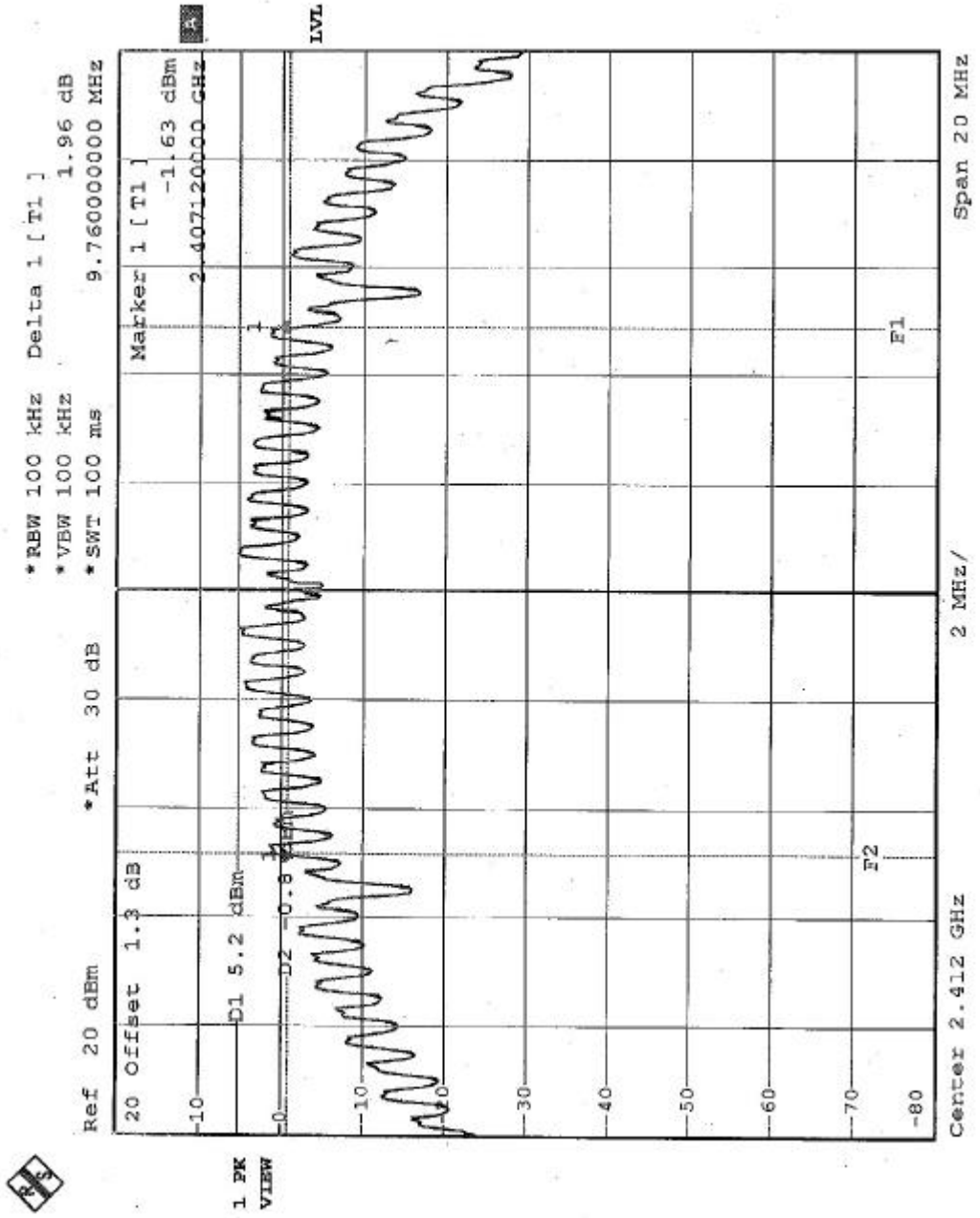
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

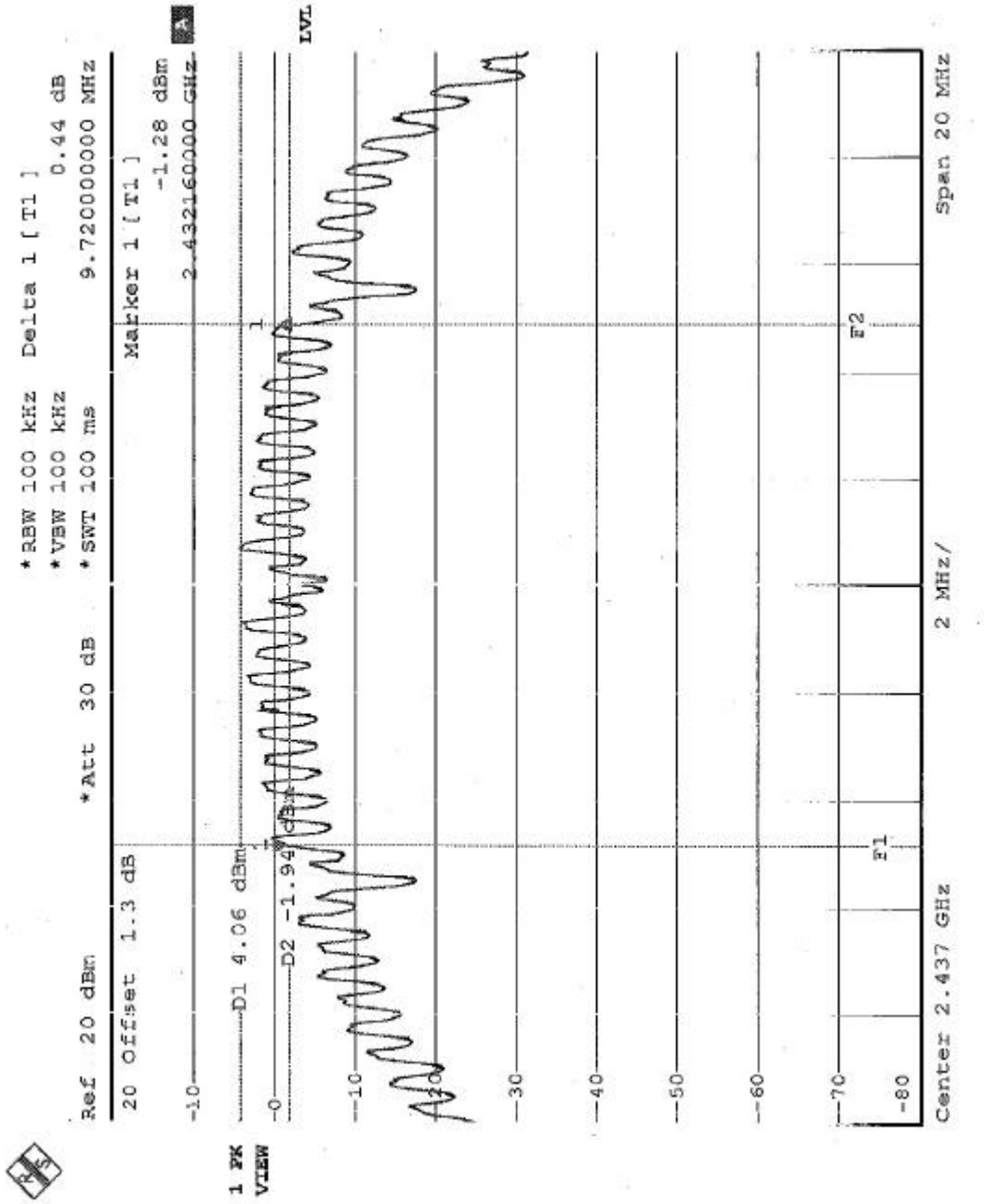
EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
INPUT POWER (SYSTEM)	120Vac, 60Hz	**ENVIRONMENTAL CONDITIONS**	18deg. C, 60%RH, 974 hPa
TEST BY	Hank Chung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.76	0.5	PASS
6	2437	9.72	0.5	PASS
11	2462	9.76	0.5	PASS

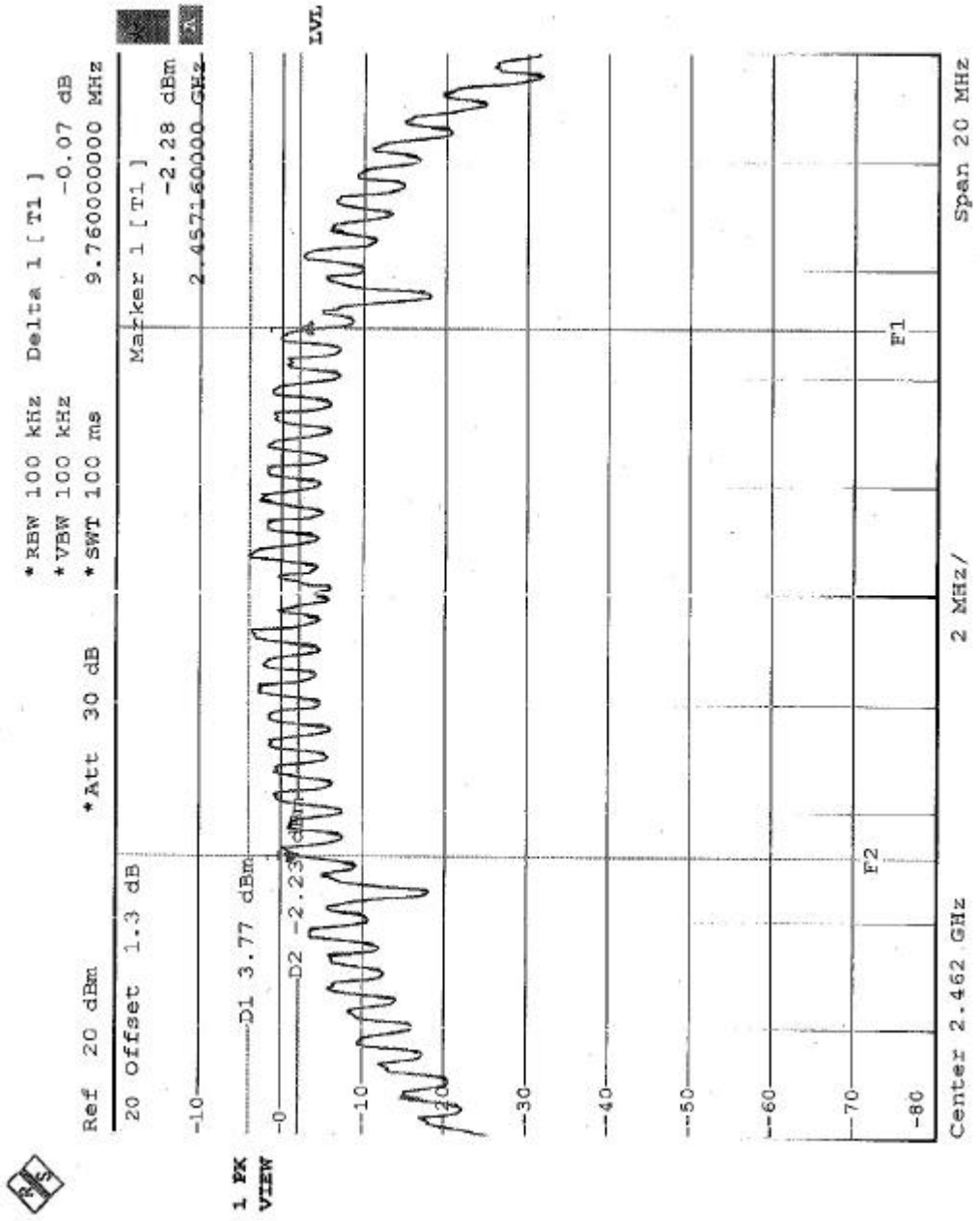
CH1


Ref 20 dBm
20 Offset 1.3 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Delta 1 [T1]
1.96 dB
9.76000000 MHz
Marker 1 [T1]
-1.63 dBm
2.407120000 GHz
D1 5.2 dBm
D2 -0.8 dBm
1 PK
VIEW
LVL
A
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz

CH6


Ref 20 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Delta 1 [T1]
0.44 dB
9.720000000 MHz
Marker 1 [T1]
-1.28 dBm
2.432160000 GHz
20 Offset 1.3 dB
D1 4.06 dBm
D2 -1.94 dBm
1 PK
VIEW
LVL
Center 2.437 GHz
2 MHz/
Span 20 MHz

CH11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20 Offset 1.3 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
*SWT 100 ms
Delta 1 [T1]
-0.07 dB
9.760000000 MHz
Marker 1 [T1]
-2.28 dBm
2.457160000 GHz
1 PK
VIEW
D1 3.77 dBm
D2 -2.23 dBm
LVL
-10
-0
-10
-20
-30
-40
-50
-60
-70
-80
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SINGLE CHANNEL POWER METER	NRVS	100026	Mar. 06, 2004
PEAK POWER SENSOR	NRV-Z32	100013	Mar. 06, 2004

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.

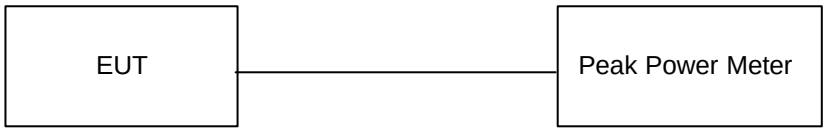
4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
INPUT POWER (SYSTEM)	120Vac, 60Hz	**ENVIRONMENTAL CONDITIONS**	18deg.C, 60%RH, 974 hPa
TEST BY	Hank Chung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18.62	30	PASS
6	2437	17.42	30	PASS
11	2462	17.84	30	PASS

4.4.8 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.4.9 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2003

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.

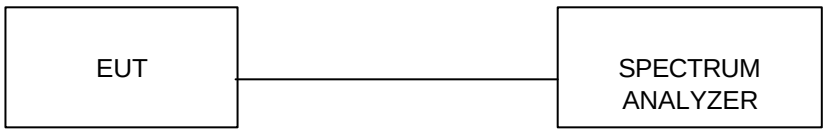
4.4.10 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.
The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

4.4.11 DEVIATION FROM TEST STANDARD

No deviation

4.4.12 TEST SETUP



4.4.13 EUT OPERATING CONDITION

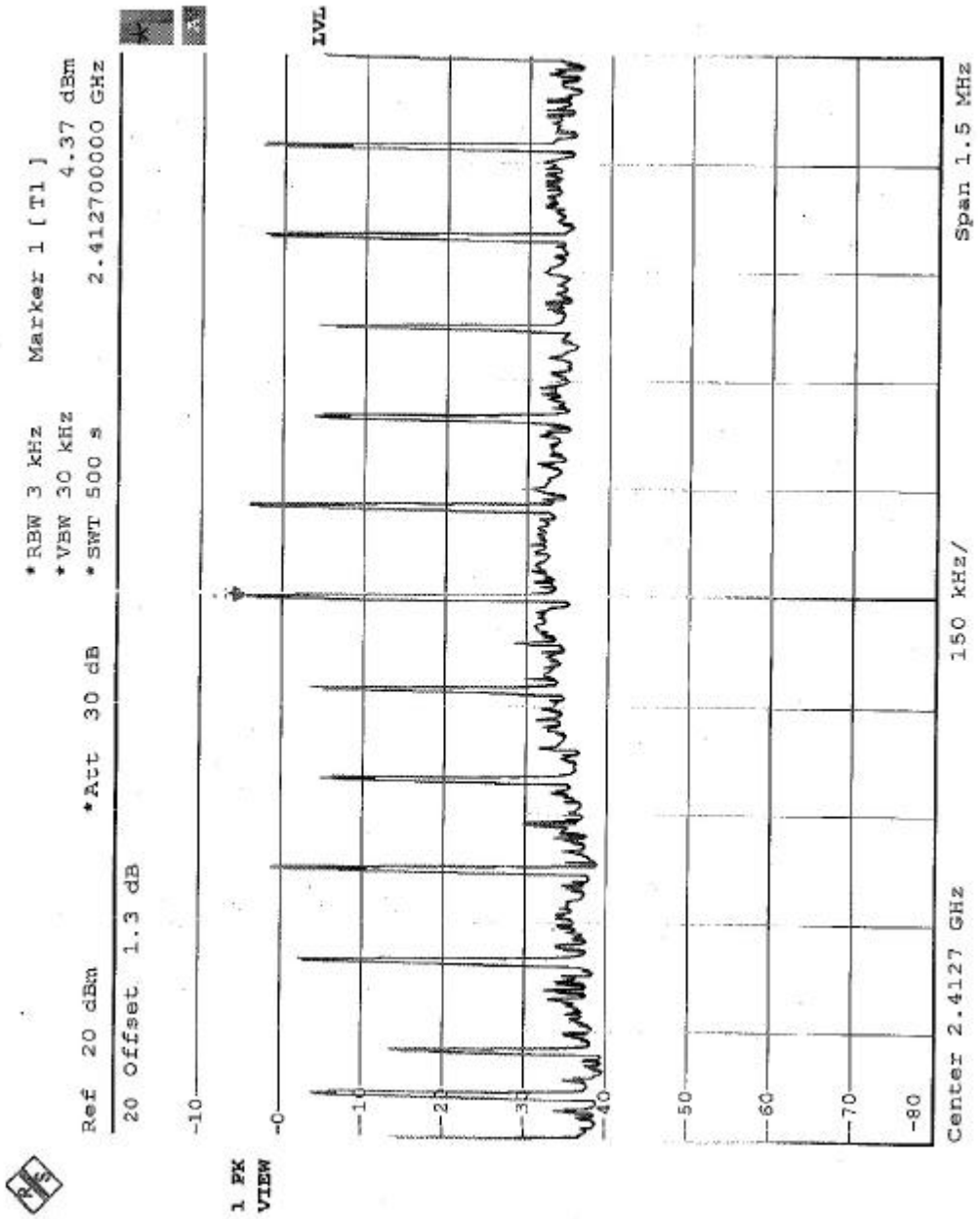
Same as Item 4.3.6

4.4.14 TEST RESULTS

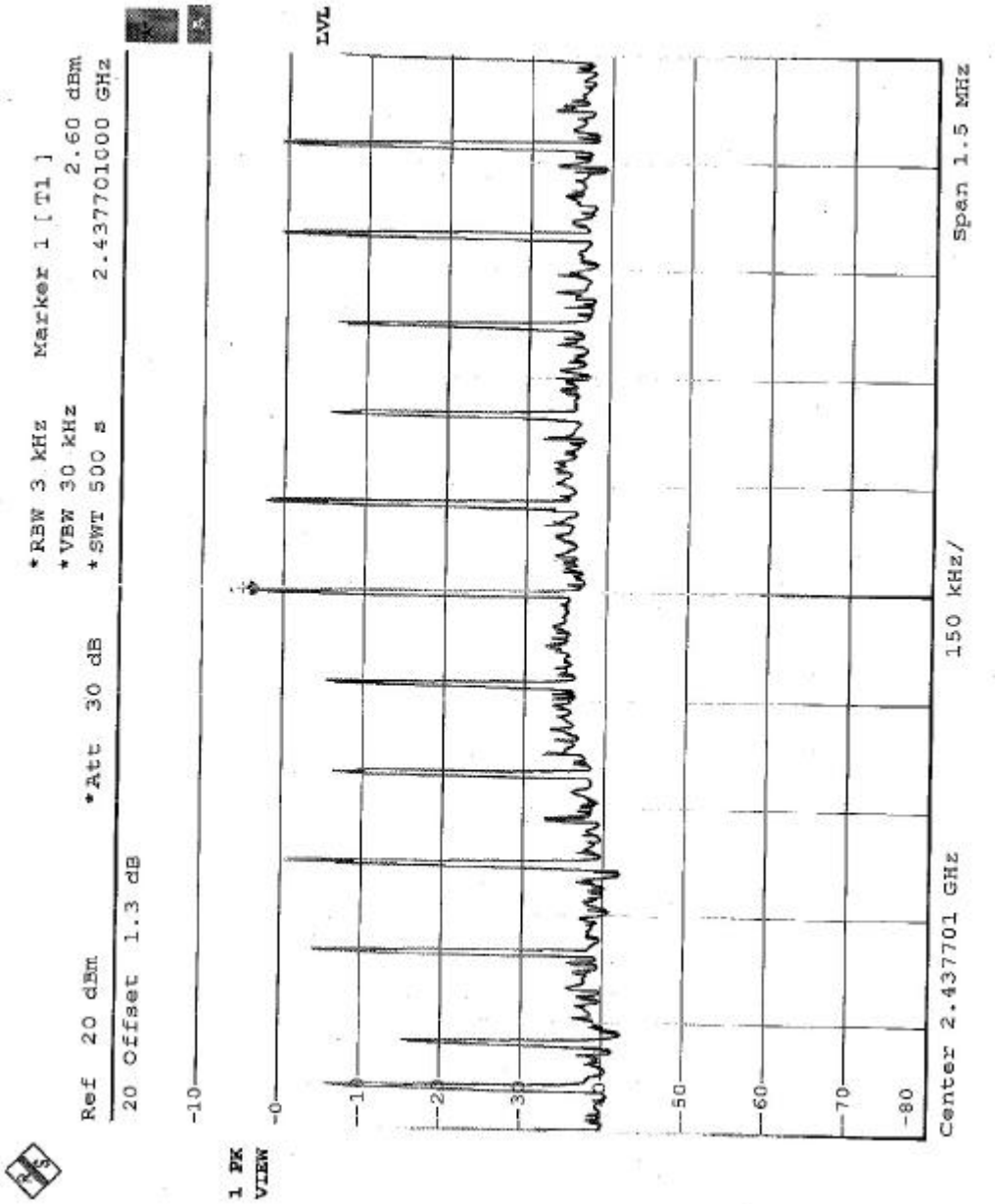
EUT	PCMCIA Wireless Card	**MODEL**	SMC2635W
INPUT POWER (SYSTEM)	120Vac, 60Hz	**ENVIRONMENTAL CONDITIONS**	18deg. C, 60%RH, 974 hPa
TEST BY	Hank Chung		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	4.37	8	PASS
6	2437	2.60	8	PASS
11	2462	2.98	8	PASS

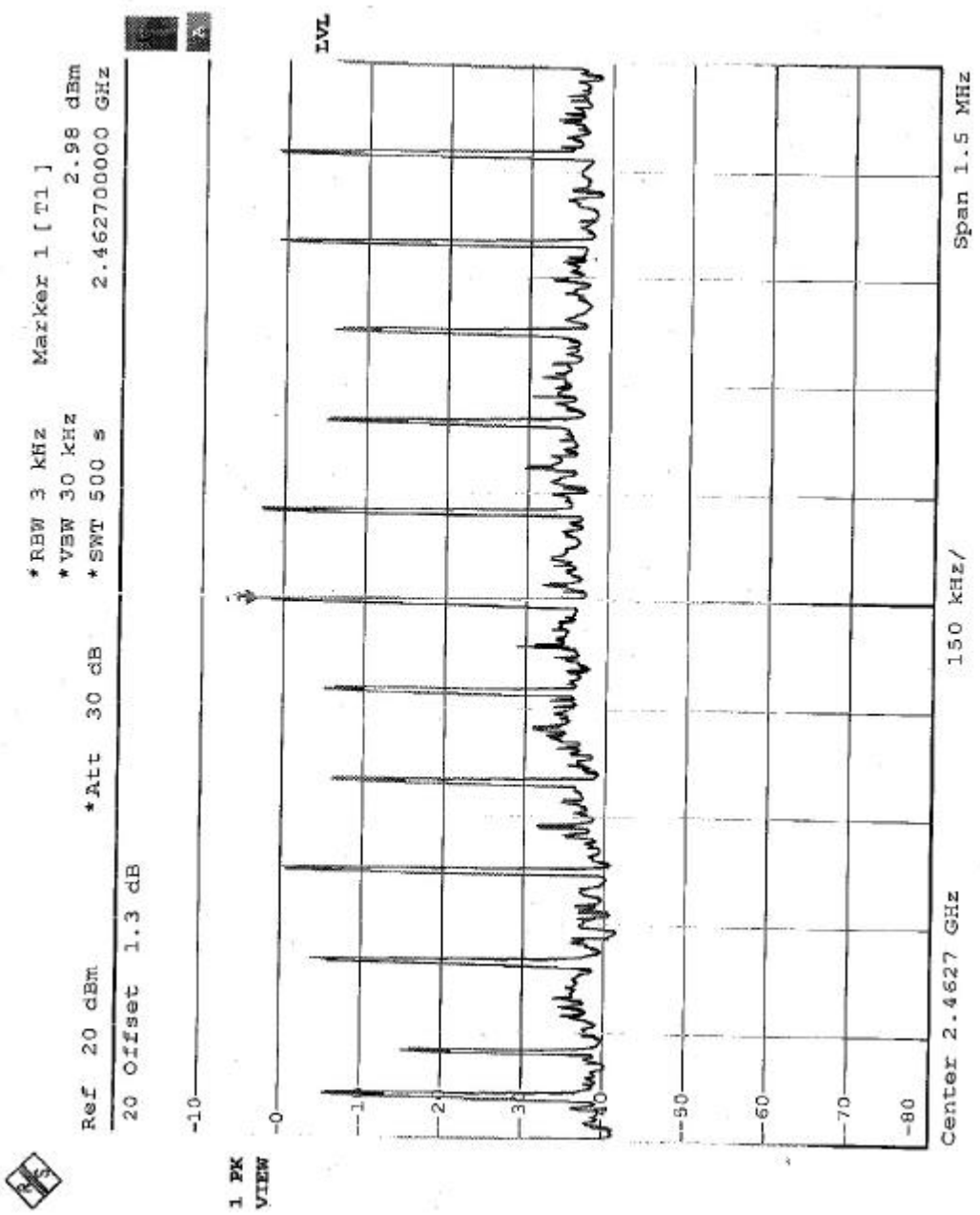
CH1


Ref 20 dBm
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
4.37 dBm
2.412700000 GHz
20 Offset 1.3 dB
1 PK
VIEW
Center 2.4127 GHz
150 kHz/
Span 1.5 MHz

CH6


Ref 20 dBm
20 Offset 1.3 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
2.60 dBm
2.437701000 GHz
1 PK
VIEW
LVL
Center 2.437701 GHz
150 kHz/
Span 1.5 MHz

CH11


Ref 20 dBm
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
2.98 dBm
2.462700000 GHz
20 Offset 1.3 dB
1 PK
VIEW
IVL
Center 2.4627 GHz
150 kHz/
Span 1.5 MHz

4.5 BAND EDGES MEASUREMENT

4.5.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2003

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.

4.5.3 TEST PROCEDURE

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

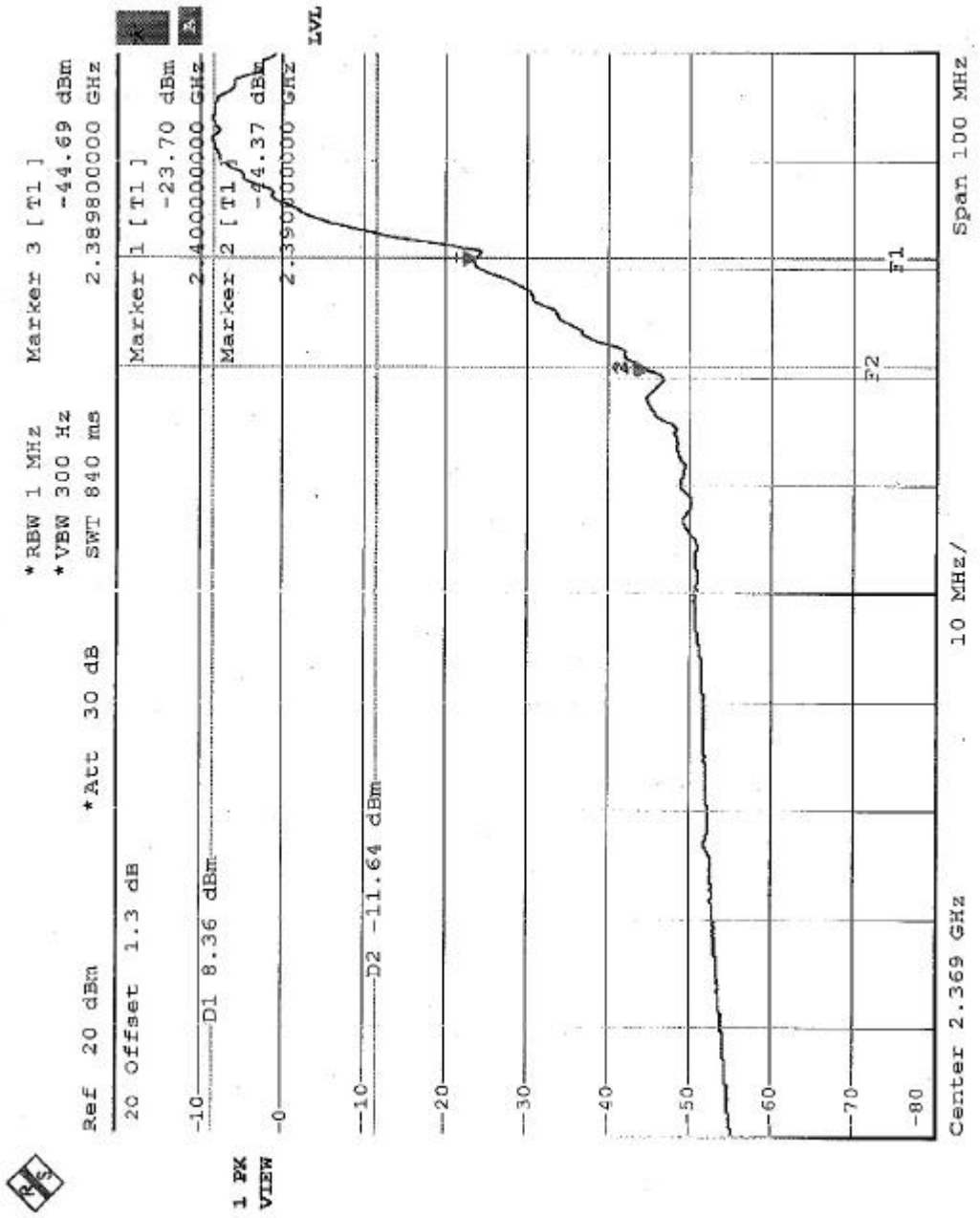
4.5.5 EUT OPERATING CONDITION

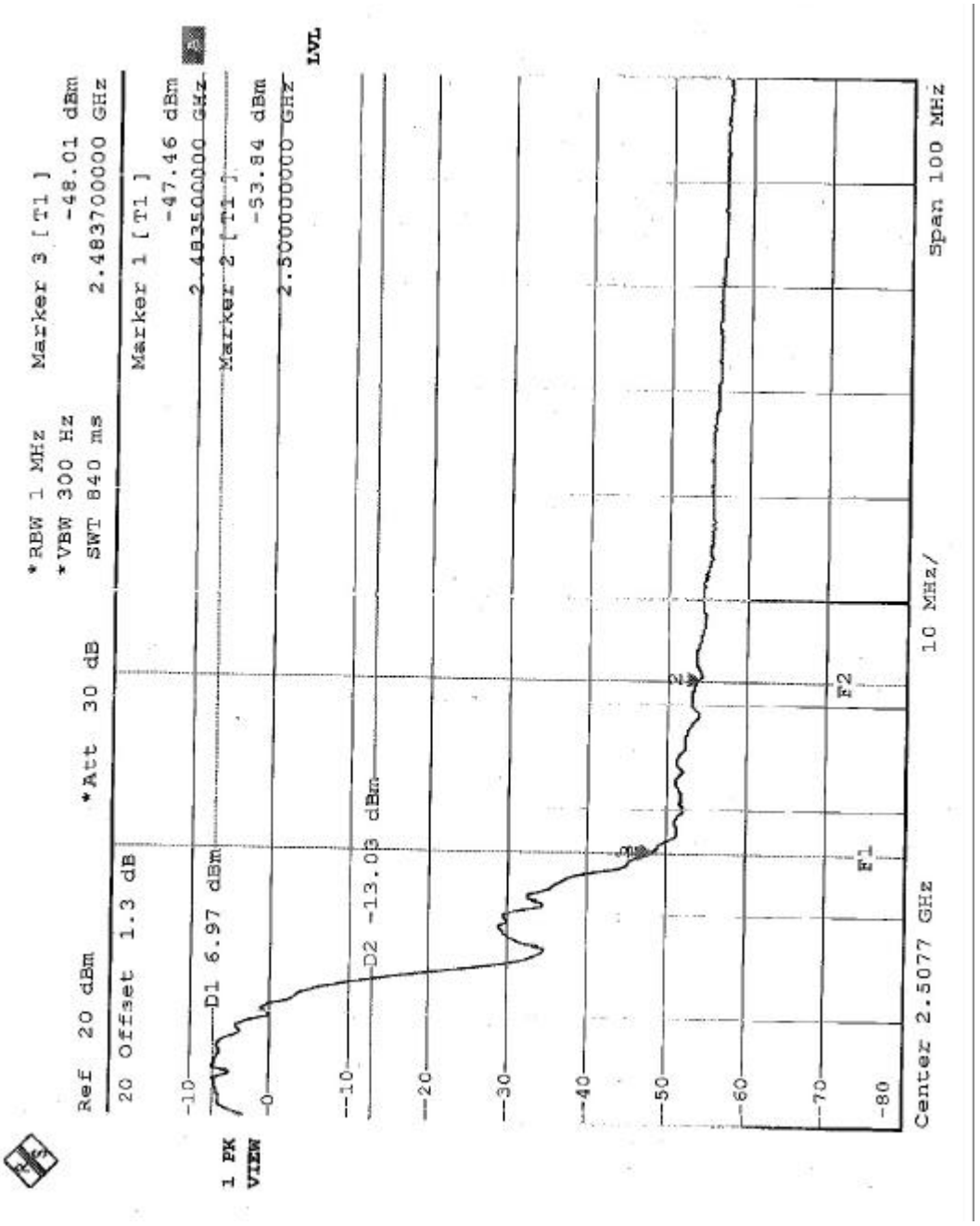
Same as Item 4.3.6

4.5.6 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

NOTE: The band edge emission plot on the following two pages shows 52.73 / 54.43 dB delta between carrier maximum power and local maximum emission in restrict band (2.390GHz / 2.4835 GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 (Page 26) is 95.0dBuV/m, so the maximum field strength in restrict band is 95.0-54.43=40.57dBuV/m which is under 54dBuV/m limit.


Ref 20 dBm
*Att 30 dB
*RBW 1 MHz
*VBW 300 Hz
SWT 840 ms
Marker 3 [T1]
-44.69 dBm
2.389800000 GHz
20 Offset 1.3 dB
D1 8.36 dBm
D2 -11.64 dBm
Marker 1 [T1]
-23.70 dBm
2.400000000 GHz
Marker 2 [T1]
-44.37 dBm
2.390000000 GHz
1 PK
VIEW
LVL
Center 2.369 GHz
10 MHz/
Span 100 MHz


Ref 20 dBm
*Att 30 dB
*RBW 1 MHz
*VBW 300 Hz
SWT 840 ms
Marker 3 [T1]
-48.01 dBm
2.483700000 GHz
Marker 1 [T1]
-47.46 dBm
2.483500000 GHz
Marker 2 [T1]
-53.84 dBm
2.300000000 GHz
20 Offset 1.3 dB
D1 6.97 dBm
D2 -13.03 dBm
1 PK
VIEW
LVL
Center 2.5077 GHz
10 MHz/
Span 100 MHz

4.6 ANTENNA REQUIREMENT

4.6.1 STANDARD APPLICABLE

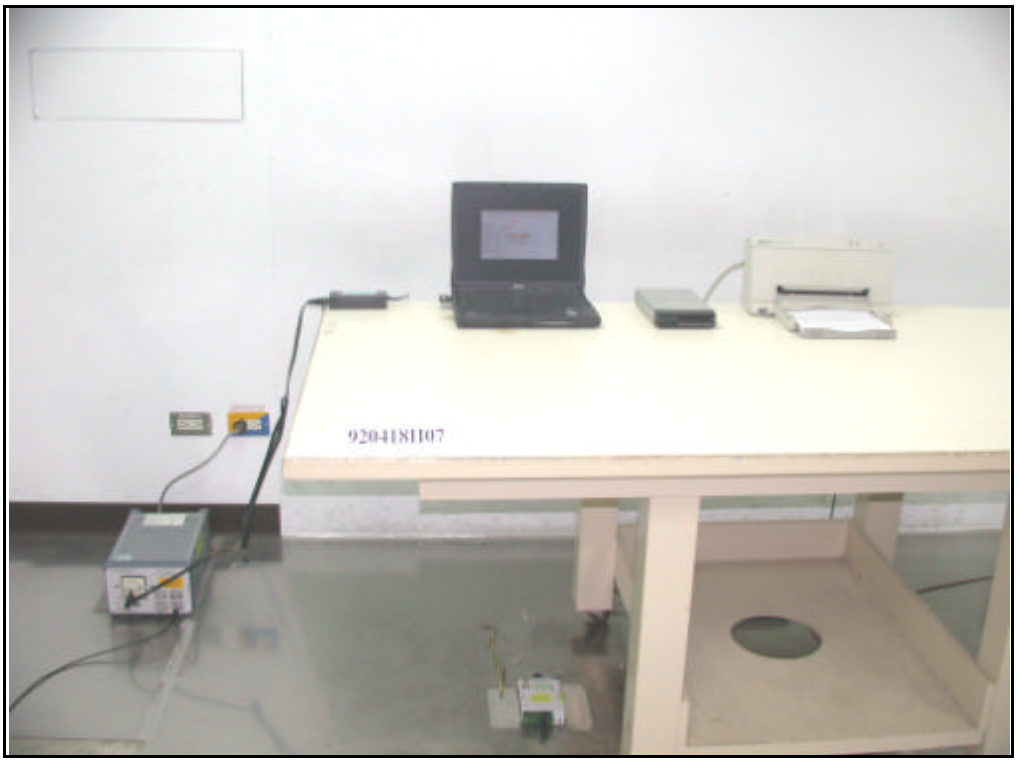
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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.

4.6.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Printed Antenna without connector. The maximum Gain of the antenna is 1.5dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST

6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC Lab:
Tel: 886-2-26052180
Fax: 886-2-26052943

Hsin Chu EMC Lab:
Tel: 886-35-935343
Fax: 886-35-935342

Lin Kou Safety Lab:
Tel: 886-2-26093195
Fax: 886-2-26093184

Lin Kou RF&Telecom Lab
Tel: 886-3-3270910
Fax: 886-3-3270892

Email: service@mail.adt.com.tw
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.