



FCC TEST REPORT

REPORT NO.: RF911231R04A

MODEL NO.: T60H656

RECEIVED: Jun. 17, 2003

TESTED: Jun. 27, 2003

APPLICANT: AMBIT Microsystems Corporation

ADDRESS: 4-1, Ming-Sheng ST., Tu-Cheng Industrial Area, Tu-Cheng City, Taipei, Taiwan R.O.C.

ISSUED BY: Advance Data Technology Corporation

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Lab Code: 200376-0



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1 CERTIFICATION

PRODUCT : 802.11b Wireless LAN MiniPCI Card
MODEL NO. : T60H656
BRAND : AMBIT
APPLICANT : AMBIT Microsystems 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 from Jun. 27, 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.

PREPARED BY: Amanda Chu, **DATE:** Jul. 03, 2003
(Amanda Chu)

APPROVED BY: Eric Lin, **DATE:** Jul. 03, 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 -14.89dBuV at 0.177MHz
15.247(c)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -1.9dBuV at 263.98MHz
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	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

NOTE: This report is prepared for FCC class II permissive change. Only conducted emission, radiated emission, Maximum Peak Output Power and Band Edge Measurement conducted emission were presented in this test report.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11b Wireless LAN MiniPCI Card
MODEL NO.	T60H656
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	10.50dBm
DATA CABLE	NA
ANTENNA TYPE	Metal IFA Antenna and PIFA Antenna
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permissive change. The difference compared with the original design is as the following:

◆ Add two new antenna:

No.	Model No.	Antenna Type / Connector	Gain (dBi)
1	WA00034	Metal IFA / with UFL connector	+1.95
2	Z11S	PIFA / with UFL connector	-1.79

2. Only conducted emission, radiated emission, Maximum Peak Output Power and Band Edge Measurement conducted emission were presented in this test report.
3. 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. For radiated measurement, Test result (A) is for antenna 1, test result (B) is for antenna 2, which were mentioned on section 3.1.
2. 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.
3. Above 1 GHz, the channel 1, 6, and 11 were tested individually.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 802.11b Wireless LAN MiniPCI Card. 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 : 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 47 CFR Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

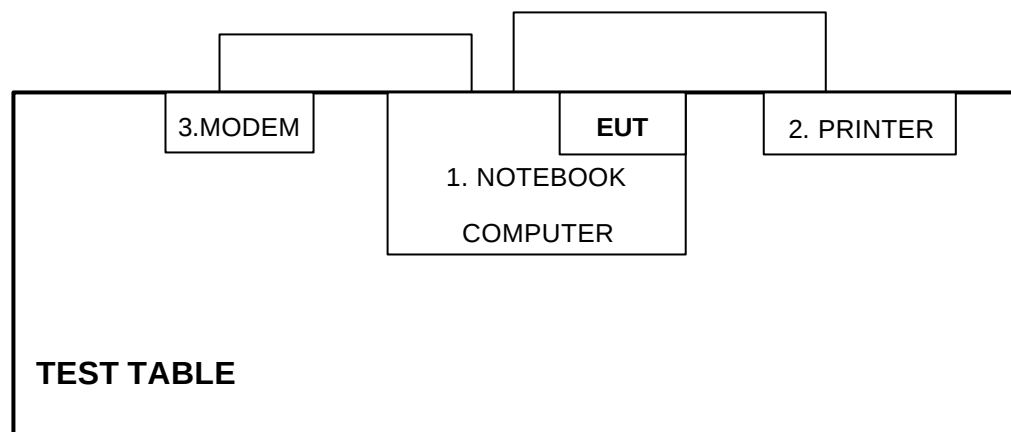
3.4 DESCRIPTION OF SUPPORT UNITS

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	EPSON	LQ-300+	DCGY017079	FCC DoC
3	MODEM	ACEEX	1414	0206026775	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	1.3 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 (MHz)	CONDUCTED LIMIT (DB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

- NOTES:** (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, 2004
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.



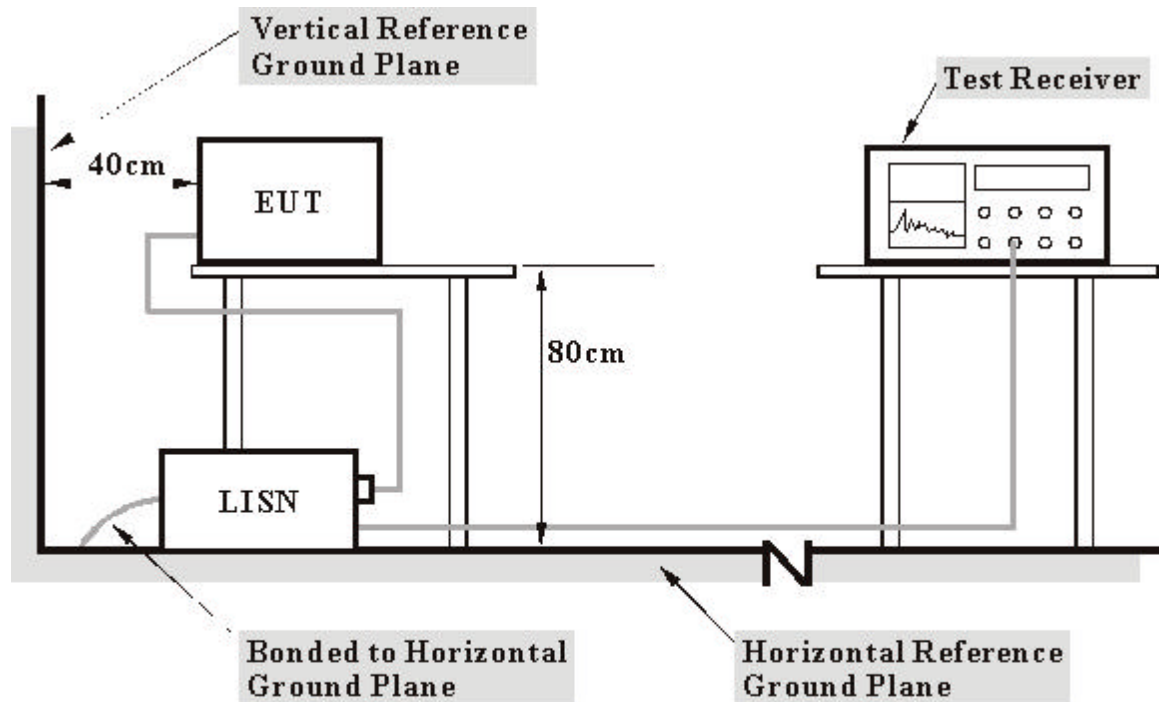
4.1.2 TEST PROCEDURES

- 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	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	28 deg. C, 50%RH, 962 hPa	TESTED BY	Eric Lee

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	0.177	0.10	49.47	-	49.57	-	64.61	54.61	-15.04	-
2	0.236	0.10	45.28	-	45.38	-	62.24	52.24	-16.86	-
3	0.584	0.10	27.36	-	27.46	-	56.00	46.00	-28.54	-
4	2.931	0.15	29.00	-	29.15	-	56.00	46.00	-26.85	-
5	5.512	0.35	30.78	-	31.13	-	60.00	50.00	-28.87	-
6	21.219	1.05	31.13	-	32.18	-	60.00	50.00	-27.82	-

NOTES: (1) "x": Undetectable

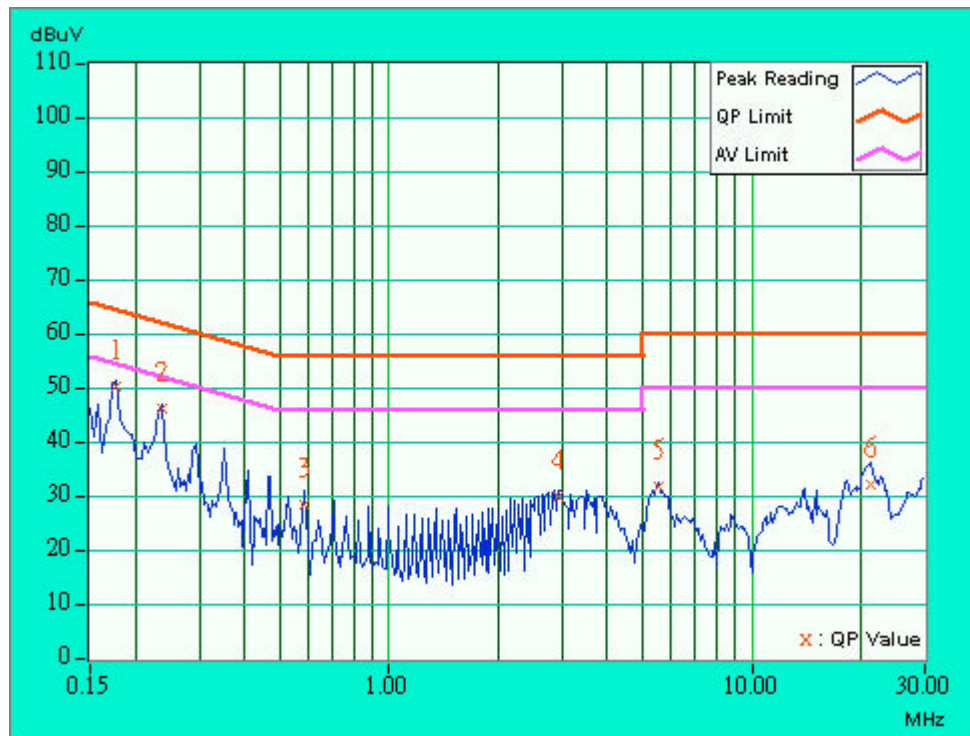
(2) Q.P. and AV. are abbreviations of quasi-peak and average.

(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

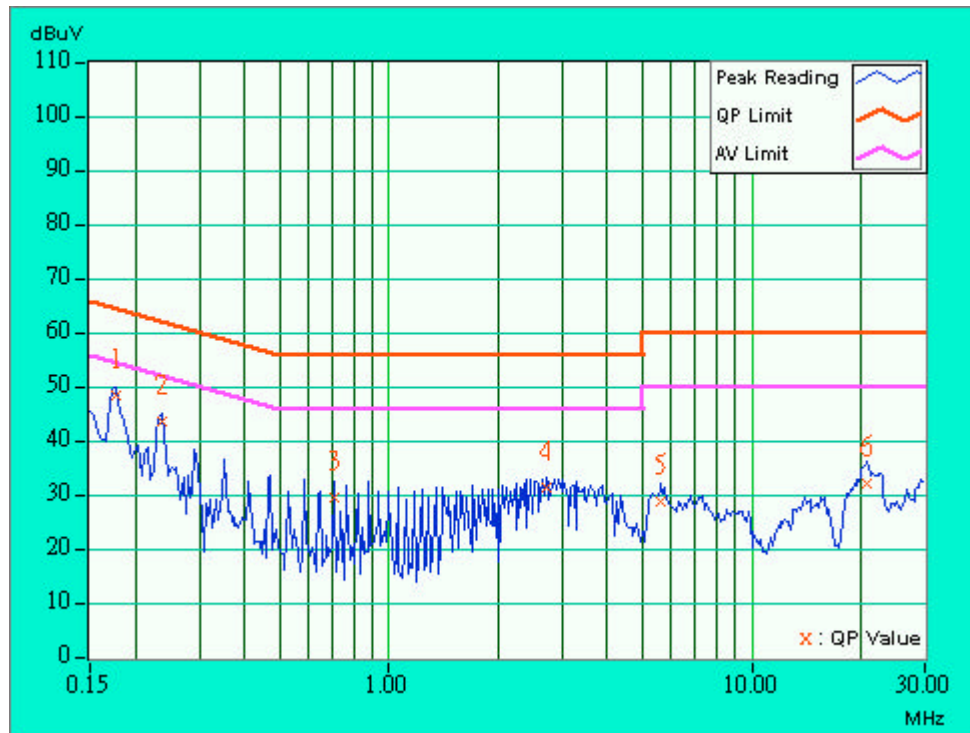
(6) Margin value = Emission level - Limit value



EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	28 deg. C, 50%RH, 962 hPa	TESTED BY	Eric Lee

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	0.177	0.10	47.97	-	48.07	-	64.61	54.61	-16.54	-
2	0.236	0.10	42.99	-	43.09	-	62.24	52.24	-19.15	-
3	0.705	0.10	29.03	-	29.13	-	56.00	46.00	-26.87	-
4	2.701	0.14	30.79	-	30.93	-	56.00	46.00	-25.07	-
5	5.633	0.33	28.08	-	28.41	-	60.00	50.00	-31.59	-
6	20.758	0.73	31.42	-	32.15	-	60.00	50.00	-27.85	-

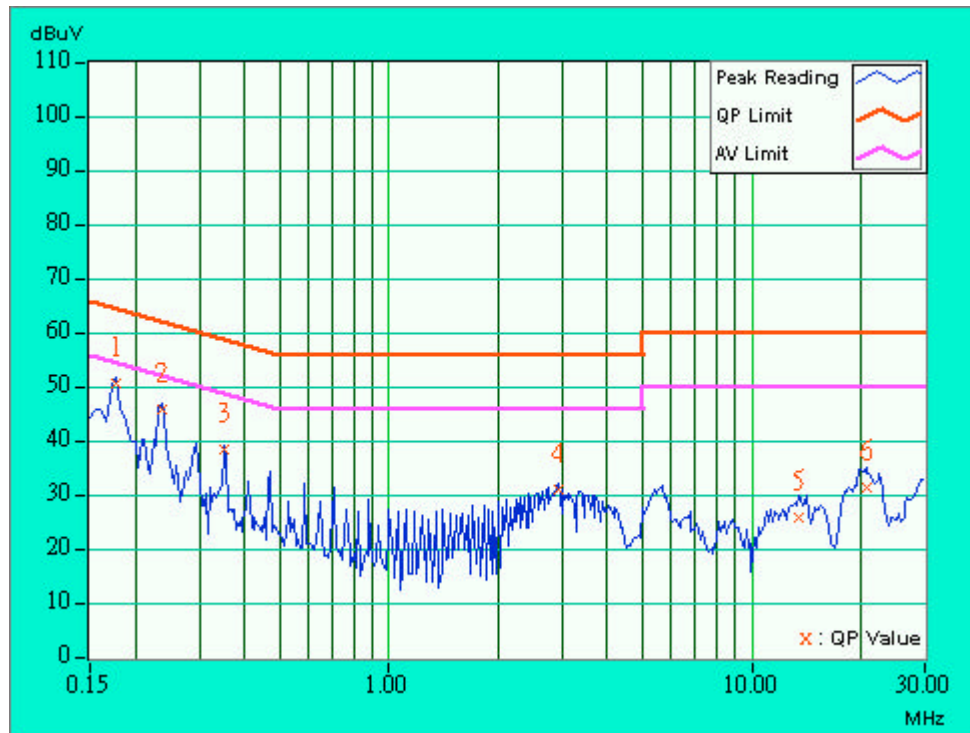
- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5)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



EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	28 deg. C, 50%RH, 962 hPa	TESTED BY	Eric Lee

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	0.177	0.10	49.62	-	49.72	-	64.61	54.61	-14.89	-
2	0.236	0.10	44.77	-	44.87	-	62.24	52.24	-17.37	-
3	0.353	0.10	37.33	-	37.43	-	58.89	48.89	-21.46	-
4	2.939	0.15	30.04	-	30.19	-	56.00	46.00	-25.81	-
5	13.461	0.74	24.99	-	25.73	-	60.00	50.00	-34.27	-
6	20.691	1.03	30.53	-	31.56	-	60.00	50.00	-28.44	-

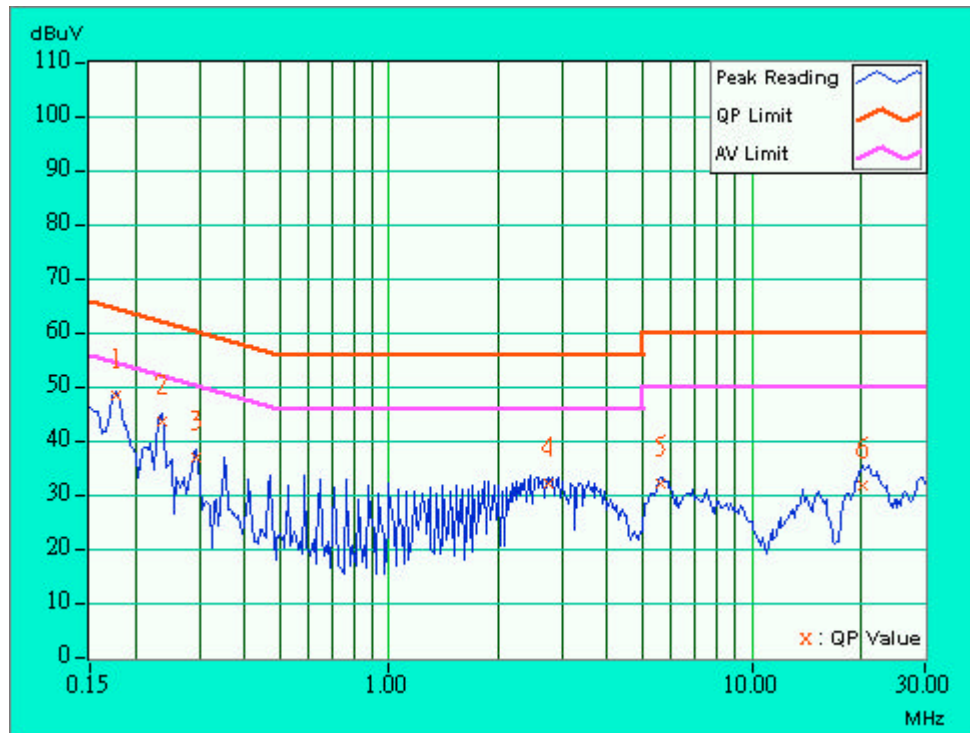
- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5)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



EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	28 deg. C, 50%RH, 962 hPa	TESTED BY	Eric Lee

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	0.177	0.10	47.81	-	47.91	-	64.61	54.61	-16.70	-
2	0.236	0.10	43.13	-	43.23	-	62.24	52.24	-19.01	-
3	0.295	0.10	36.26	-	36.36	-	60.40	50.40	-24.04	-
4	2.763	0.14	31.42	-	31.56	-	56.00	46.00	-24.44	-
5	5.590	0.33	31.56	-	31.89	-	60.00	50.00	-28.11	-
6	20.301	0.71	31.14	-	31.85	-	60.00	50.00	-28.15	-

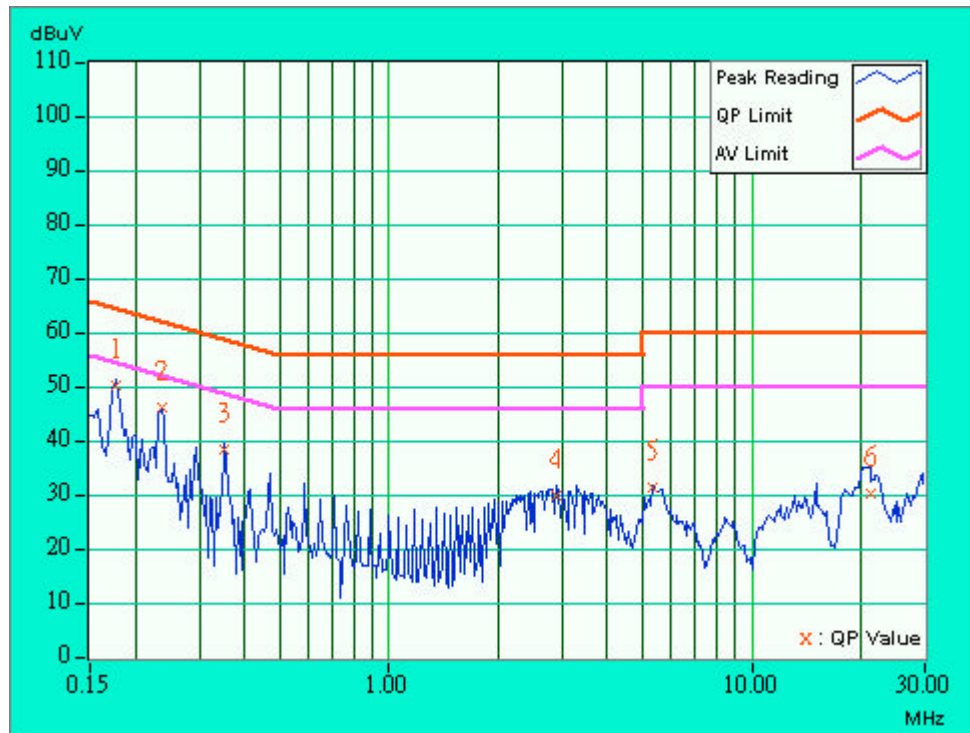
- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5)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



EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	28 deg. C, 50%RH, 962 hPa	TESTED BY	Eric Lee

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	0.177	0.10	49.43	-	49.53	-	64.61	54.61	-15.08	-
2	0.236	0.10	45.09	-	45.19	-	62.24	52.24	-17.05	-
3	0.353	0.10	37.39	-	37.49	-	58.89	48.89	-21.40	-
4	2.884	0.14	29.06	-	29.20	-	56.00	46.00	-26.80	-
5	5.297	0.34	30.48	-	30.82	-	60.00	50.00	-29.18	-
6	21.219	1.05	29.25	-	30.30	-	60.00	50.00	-29.70	-

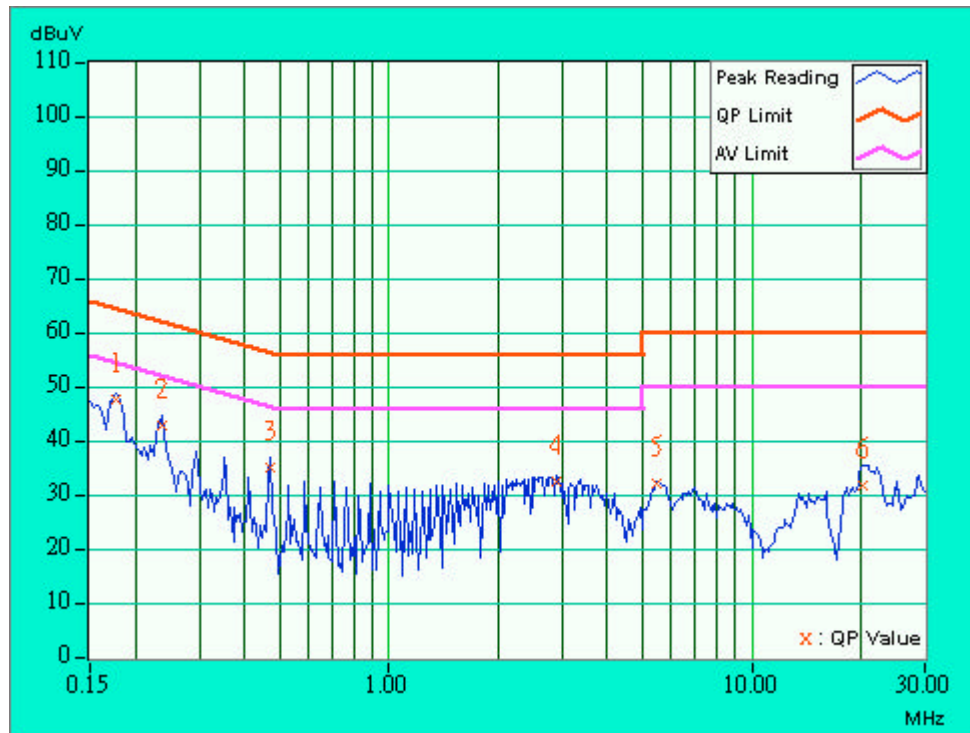
- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5)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



EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	28 deg. C, 50%RH, 962 hPa	TESTED BY	Eric Lee

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	0.177	0.10	47.08	-	47.18	-	64.61	54.61	-17.43	-
2	0.236	0.10	42.15	-	42.25	-	62.24	52.24	-19.99	-
3	0.470	0.10	34.40	-	34.50	-	56.51	46.51	-22.01	-
4	2.884	0.14	32.06	-	32.20	-	56.00	46.00	-23.80	-
5	5.475	0.32	31.40	-	31.72	-	60.00	50.00	-28.28	-
6	20.191	0.71	31.21	-	31.92	-	60.00	50.00	-28.08	-

- 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 (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
HP Spectrum Analyzer	8594ER	3829U04676	Jul. 14, 2003
ADVANTEST Spectrum Analyzer	R3271A	85060311	May 21, 2004
CHASE RF Pre_Amplifier	CPA9232	1057	Apr. 24, 2004
HP Pre_Amplifier	8449B	3008A01281	June 27, 2004
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.
7. The CANADA Site Registration No. is IC 3789-C.



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.

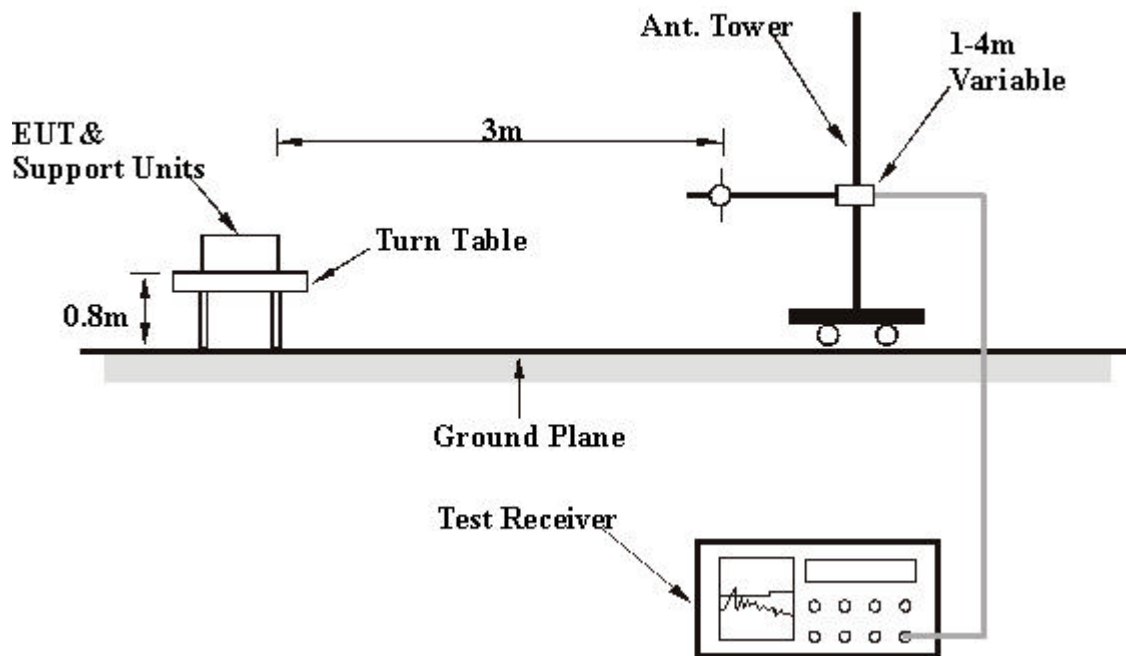
NOTE:

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 (A)

EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23 deg. C, 60%RH, 962 hPa	TESTED BY	Eric Lee

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	132.04	19.2 QP	43.50	-24.30	1.00 H	0	7.40	11.80
2	176.00	26.0 QP	43.50	-17.50	1.32 H	318	16.80	9.20
3	220.00	39.8 QP	46.00	-6.20	1.00 H	308	30.40	9.40
4	263.98	44.1 QP	46.00	-1.90	1.00 H	124	30.00	14.10
5	307.99	31.8 QP	46.00	-14.20	1.02 H	56	17.50	14.30
6	352.00	34.3 QP	46.00	-11.70	1.00 H	53	18.80	15.50
7	396.00	39.0 QP	46.00	-7.00	1.36 H	359	22.00	17.00
8	440.00	24.3 QP	46.00	-21.70	1.00 H	303	6.40	18.00
9	571.99	31.3 QP	46.00	-14.70	1.21 H	0	10.00	21.30
10	615.99	31.3 QP	46.00	-14.70	1.40 H	68	9.80	21.50
11	659.99	34.0 QP	46.00	-12.00	1.67 H	89	12.00	22.00
12	748.00	31.0 QP	46.00	-15.00	1.50 H	209	7.20	23.80

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	131.98	27.3 QP	43.50	-16.20	1.35 V	38	15.60	11.80
2	196.16	17.3 QP	43.50	-26.20	1.19 V	0	8.10	9.20
3	263.98	29.3 QP	46.00	-16.70	1.35 V	23	15.30	14.10
4	308.00	30.5 QP	46.00	-15.50	1.59 V	0	16.20	14.30
5	352.00	38.2 QP	46.00	-7.80	1.17 V	0	22.70	15.50
6	395.98	35.5 QP	46.00	-10.50	1.17 V	189	18.50	17.00
7	440.02	32.0 QP	46.00	-14.00	1.22 V	13	14.00	18.00
8	483.96	29.2 QP	46.00	-16.80	1.61 V	71	10.20	19.00
9	527.96	30.2 QP	46.00	-15.80	1.62 V	5	10.60	19.60
10	572.17	31.7 QP	46.00	-14.30	1.28 V	75	10.40	21.30
11	659.80	34.5 QP	46.00	-11.50	1.56 V	31	12.50	22.00
12	703.75	26.5 QP	46.00	-19.50	1.23 V	10	3.90	22.60

- 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	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 49%RH, 962 hPa	TESTED BY	Eric Lee

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	54.4 PK	74.00	-19.60	1.14 H	36	24.90	29.50
1	2390.00	45.7 AV	54.00	-8.30	1.14 H	36	16.20	29.50
2	*2412.00	97.2 PK			1.33 H	36	67.70	29.50
2	*2412.00	90.9 AV			1.33 H	36	61.40	29.50
3	4824.00	54.8 PK	74.00	-19.20	1.31 H	128	25.30	29.50
3	4824.00	45.8 AV	54.00	-8.20	1.31 H	128	16.30	29.50
4	9648.00	56.4 PK	74.00	-17.60	1.24 H	85	26.90	29.50
4	9648.00	48.5 AV	54.00	-5.50	1.24 H	85	19.00	29.50

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	2390.00	55.2 PK	74.00	-18.80	1.00 V	32	25.70	29.50
1	2390.00	45.7 AV	54.00	-8.30	1.00 V	32	16.20	29.50
2	*2412.00	101.4 PK			1.20 V	341	71.90	29.50
2	*2412.00	94.9 AV			1.20 V	341	65.40	29.50
3	4824.00	55.7 PK	74.00	-18.30	1.00 V	30	26.20	29.50
3	4824.00	49.0 AV	54.00	-5.00	1.00 V	30	19.50	29.50
4	9648.00	56.9 PK	74.00	-17.10	1.08 V	37	27.40	29.50
4	9648.00	50.4 AV	54.00	-3.60	1.08 V	37	20.90	29.50

- 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	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 49%RH, 962 hPa	TESTED BY	Eric Lee

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	99.3 PK			1.48 H	63	69.80	29.50
1	*2437.00	92.4 AV			1.48 H	63	62.90	29.50
2	4874.00	54.6 PK	74.00	-19.40	1.26 H	111	25.10	29.50
2	4874.00	46.1 AV	54.00	-7.90	1.26 H	111	16.60	29.50
3	9748.00	56.7 PK	74.00	-17.30	1.26 H	107	27.20	29.50
3	9748.00	48.9 AV	54.00	-5.10	1.26 H	107	19.40	29.50

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	102.3 PK			1.05 V	5	72.80	29.50
1	*2437.00	95.4 AV			1.05 V	5	65.90	29.50
2	4874.00	54.9 PK	74.00	-19.10	1.08 V	264	25.40	29.50
2	4874.00	47.0 AV	54.00	-7.00	1.08 V	264	17.50	29.50
3	9748.00	57.5 PK	74.00	-16.50	1.49 V	48	28.00	29.50
3	9748.00	50.3 AV	54.00	-3.70	1.49 V	48	20.80	29.50

- 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	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 49%RH, 962 hPa	TESTED BY	Eric Lee

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	97.2 PK			1.47 H	65	67.70	29.50
1	*2462.00	90.2 AV			1.47 H	65	60.70	29.50
2	2483.50	55.2 PK	74.00	-18.80	1.28 H	109	25.80	29.50
2	2483.50	45.5 AV	54.00	-8.50	1.28 H	109	16.00	29.50
3	4924.00	55.8 PK	74.00	-18.20	1.07 H	37	26.30	29.50
3	4924.00	47.3 AV	54.00	-6.70	1.07 H	37	17.80	29.50
4	9848.00	57.6 PK	74.00	-16.40	1.38 H	18	28.10	29.50
4	9848.00	48.9 AV	54.00	-5.10	1.38 H	18	19.40	29.50

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	*2462.00	102.0 PK			1.04 V	3	72.50	29.50
1	*2462.00	95.5 AV			1.04 V	3	66.00	29.50
2	2483.50	53.8 PK	74.00	-20.20	1.39 V	124	24.30	29.50
2	2483.50	45.7 AV	54.00	-8.30	1.39 V	124	16.20	29.50
3	4924.00	55.3 PK	74.00	-18.70	1.40 V	135	25.80	29.50
3	4924.00	46.6 AV	54.00	-7.40	1.40 V	135	17.10	29.50
4	9848.00	59.2 PK	74.00	-14.80	1.37 V	66	29.80	29.50
4	9848.00	52.7 AV	54.00	-1.30	1.37 V	66	23.20	29.50

- 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

4.2.8 TEST RESULTS (B)

EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 962 hPa	TESTED BY	Eric Lee

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	132.00	24.3 QP	43.50	-19.20	2.21 H	0	12.40	11.90
2	176.00	24.1 QP	43.50	-19.40	1.61 H	234	14.90	9.20
3	198.00	28.1 QP	43.50	-15.40	1.93 H	28	18.90	9.20
4	220.00	36.4 QP	46.00	-9.60	1.54 H	288	27.50	8.90
5	231.00	34.3 QP	46.00	-11.70	1.50 H	56	24.20	10.10
6	264.00	42.8 QP	46.00	-3.20	1.34 H	325	30.50	12.30
7	308.01	38.8 QP	46.00	-7.20	1.58 H	199	23.80	15.00
8	352.00	43.6 QP	46.00	-2.40	1.00 H	157	28.50	15.10
9	396.00	38.5 QP	46.00	-7.50	1.32 H	172	22.50	15.90
10	440.00	35.0 QP	46.00	-11.00	1.18 H	277	17.30	17.70

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	132.00	22.8 QP	43.50	-20.70	1.25 V	154	10.90	11.90
2	176.00	28.4 QP	43.50	-15.10	1.11 V	206	19.20	9.20
3	198.00	28.4 QP	43.50	-15.10	1.09 V	300	19.20	9.20
4	220.00	33.8 QP	46.00	-12.20	1.54 V	254	24.90	8.90
5	231.00	32.1 QP	46.00	-13.90	1.35 V	58	22.00	10.10
6	264.00	39.6 QP	46.00	-6.40	1.21 V	300	27.30	12.30
7	308.00	34.9 QP	46.00	-11.10	1.18 V	277	19.90	15.00
8	352.00	36.3 QP	46.00	-9.70	1.34 V	269	21.20	15.10
9	396.00	34.2 QP	46.00	-11.80	1.32 V	277	18.30	15.90
10	440.00	30.2 QP	46.00	-15.80	1.58 V	321	12.50	17.70

- 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

EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
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, 962 hPa	TESTED BY	Eric Lee

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	2374.00	45.5 PK	74.00	-28.50	1.55 H	197	9.80	35.80
2	*2412.00	98.5 PK			1.01 H	317	62.60	35.90
2	*2412.00	90.7 AV			1.01 H	317	54.80	35.80
3	2491.00	43.8 PK	74.00	-30.20	1.25 H	300	7.50	36.20
4	4824.00	62.0 PK	74.00	-12.00	1.08 H	214	18.90	43.10
4	4824.00	52.8 AV	54.00	-1.20	1.08 H	214	9.70	35.90

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	2374.00	46.0 PK	74.00	-28.00	1.11 V	209	10.20	35.80
2	*2412.00	96.5 PK			1.30 V	285	60.60	35.90
2	*2412.00	88.5 AV			1.30 V	285	52.50	35.80
3	2490.00	43.8 PK	74.00	-30.20	1.32 V	301	7.50	36.20
4	4824.00	53.8 PK	74.00	-20.20	1.58 V	302	10.70	43.10
4	4824.00	47.7 AV	54.00	-6.30	1.58 V	302	4.60	35.90

- 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	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
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, 962 hPa	TESTED BY	Eric Lee

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	2377.00	46.4 PK	74.00	-27.60	1.30 H	194	10.60	35.80
2	*2437.00	98.4 PK			1.55 H	300	62.40	36.00
2	*2437.00	92.9 AV			1.55 H	300	56.90	35.80
3	2491.00	48.5 PK	74.00	-25.50	1.54 H	65	12.20	36.20
4	4874.00	59.6 PK	74.00	-14.40	1.38 H	239	16.40	43.20
4	4874.00	52.5 AV	54.00	-1.50	1.38 H	239	9.30	36.00

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	2370.00	44.2 PK	74.00	-29.80	1.00 V	298	8.50	35.80
2	*2437.00	100.2 PK			1.64 V	264	64.20	36.00
2	*2437.00	92.9 AV			1.64 V	264	56.90	35.80
3	2490.00	47.1 PK	74.00	-26.90	1.33 V	98	10.80	36.20
4	4874.00	57.6 PK	74.00	-16.40	1.78 V	301	14.40	43.20
4	4874.00	48.8 AV	54.00	-5.20	1.78 V	301	5.60	36.00

- 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	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
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, 962 hPa	TESTED BY	Eric Lee

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	2370.00	43.3 PK	74.00	-30.70	1.00 H	54	7.50	35.80
2	*2462.00	99.8 PK			1.47 H	331	68.20	36.10
2	*2462.00	93.4 AV			1.47 H	331	59.90	35.80
3	2491.00	54.9 PK	74.00	-19.10	1.04 H	251	18.70	36.20
3	2491.00	43.1 AV	54.00	-10.90	1.04 H	251	6.90	36.10
4	4924.00	58.5 PK	74.00	-15.50	1.55 H	302	15.10	43.30
4	4924.00	52.9 AV	54.00	-1.10	1.55 H	302	9.60	36.20

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	2380.00	45.6 PK	74.00	-28.40	1.19 V	133	9.80	35.80
2	*2462.00	98.1 PK			1.66 V	326	63.80	36.10
2	*2462.00	91.2 AV			1.66 V	326	56.00	35.80
3	2491.00	54.1 PK	74.00	-19.90	1.46 V	268	17.90	36.20
3	2491.00	39.8 AV	54.00	-14.20	1.46 V	268	3.60	36.10
4	4924.00	55.1 PK	74.00	-18.90	1.37 V	203	11.80	43.30
4	4924.00	48.2 AV	54.00	-5.80	1.37 V	203	4.90	36.20

- 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 MAXIMUM PEAK OUTPUT POWER

4.3.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Jul. 24, 2003
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 2004
NARDA DETECTOR	4503A	FSCM99899	NA

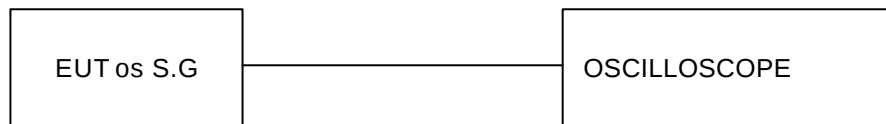
NOTE:

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 PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.3.4 TEST SETUP



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

EUT	802.11b Wireless LAN MiniPCI Card	MODEL	T60H656
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 60 %RH, 978 hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	10.10	30	PASS
6	2437	10.70	30	PASS
11	2462	10.50	30	PASS

4.4 BAND EDGES MEASUREMENT

4.4.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 24, 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.

4.4.3 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.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 EUT OPERATING CONDITION

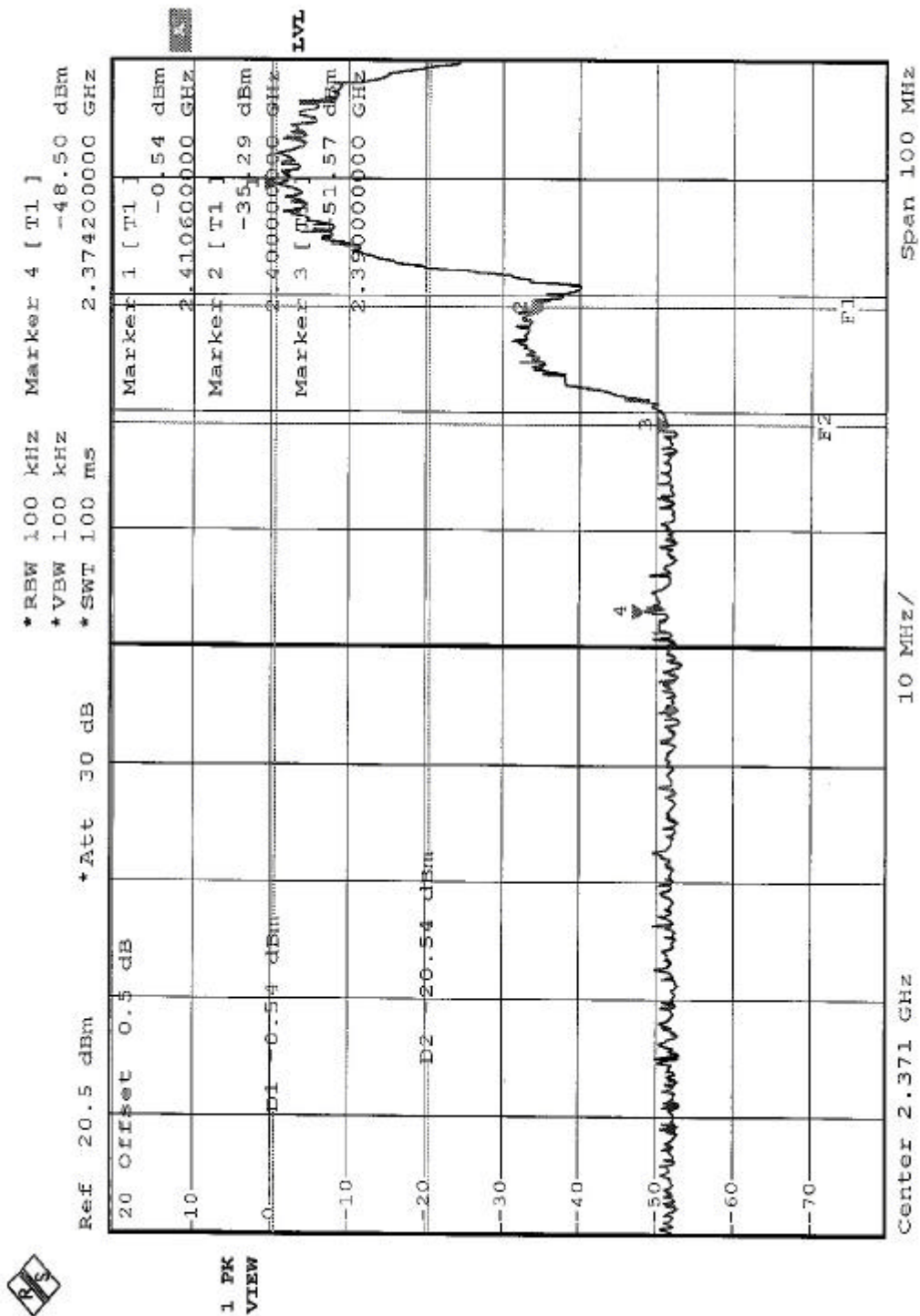
Same as Item 4.3.6.

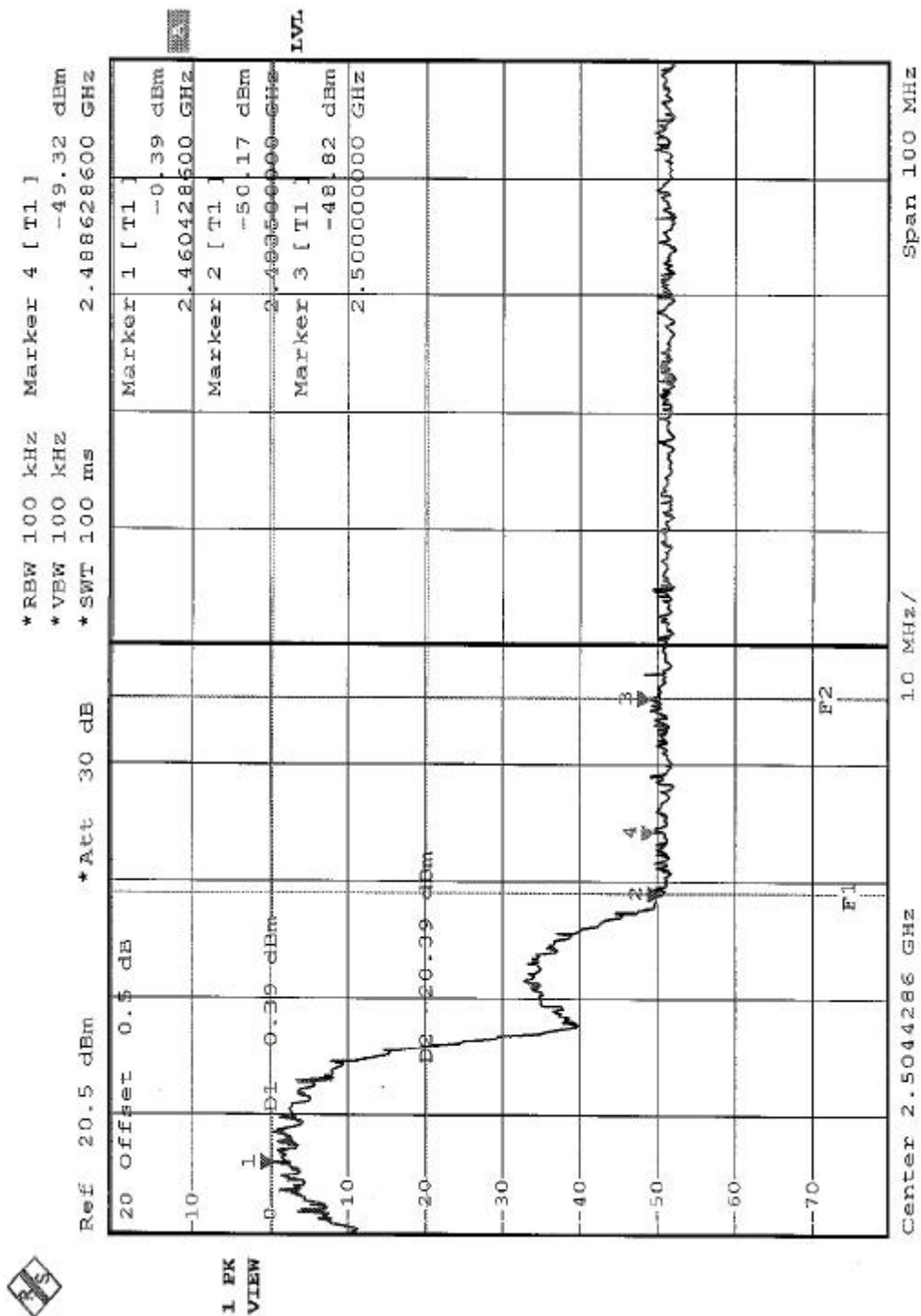
4.4.6 TEST RESULTS

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

NOTE (1): The band edge emission plot on the following first page shows 47.96dB delta between carrier maximum power and local maximum emission in restrict band (2.3742GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 94.9dBuV/m, so the maximum field strength in restrict band is $94.9 - 47.96 = 46.94$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 49.71dB delta between carrier maximum power and local maximum emission in restrict band (2.4886GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 95.9dBuV/m, so the maximum field strength in restrict band is $95.9 - 49.71 = 46.19$ dBuV/m which is under 54 dBuV/m limit.







4.5 ANTENNA REQUIREMENT

4.5.1 STANDARD APPLICABLE

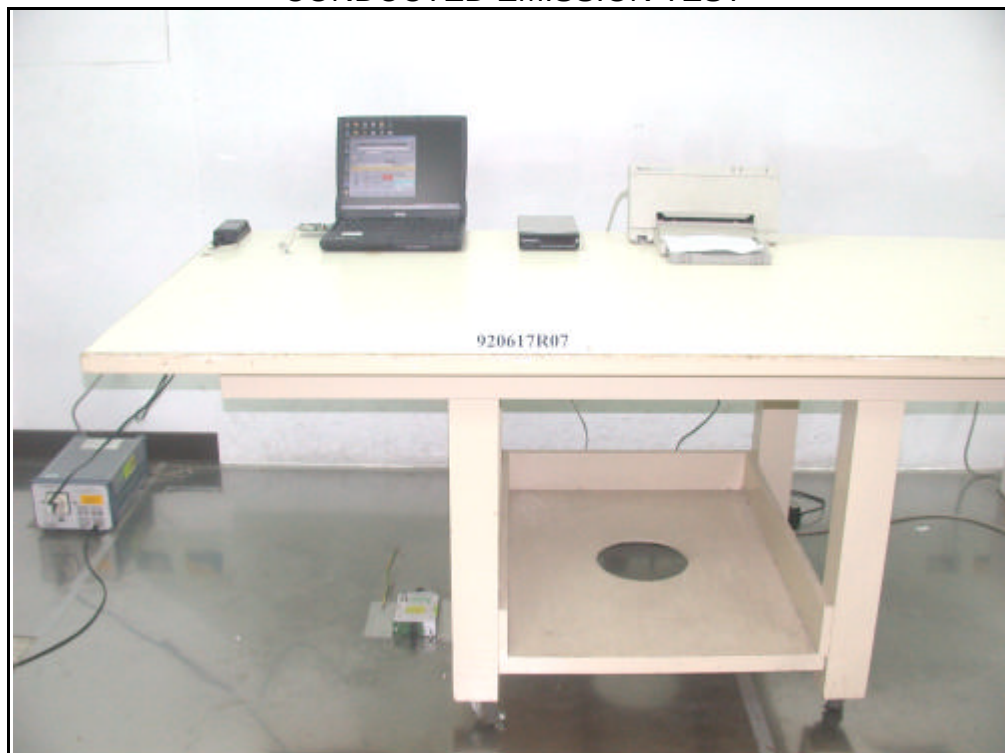
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional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

4.5.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Metal IFA Antenna and PIFA Antenna with UFL connector. The maximum Gain of the antenna is 2dBi.

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:

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Email: service@mail.adt.com.tw

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