



FCC TEST REPORT

REPORT NO.: RF920212H05A

MODEL NO.: 3CRWE850075A

RECEIVED: Feb. 22, 2003

TESTED: Feb. 22 to Mar. 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.

This test report consists of 100 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CNLA, NVLAP or any government agencies. The test results in the report only apply to the tested sample.



Lab Code: 200376-0



Table of Contents

1.	CERTIFICATION.....	4
2.	SUMMARY OF TEST RESULTS	5
3.	GENERAL INFORMATION	6
3.1	GENERAL DESCRIPTION OF EUT	6
3.2	DESCRIPTION OF TEST MODES	7
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	7
3.4	DESCRIPTION OF SUPPORT UNITS	8
4.	TEST TYPES AND RESULTS	10
4.1	CONDUCTED EMISSION MEASUREMENT.....	10
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT.....	10
4.1.2	TEST INSTRUMENTS.....	10
4.1.3	TEST PROCEDURES	11
4.1.4	DEVIATION FROM TEST STANDARD	11
4.1.5	TEST SETUP.....	12
4.1.6	EUT OPERATING CONDITIONS	12
4.1.7	TEST RESULTS.....	13
4.2	RADIATED EMISSION MEASUREMENT	15
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT.....	15
4.2.2	LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS	16
4.2.3	TEST INSTRUMENTS.....	17
4.2.4	TEST PROCEDURES	18
4.2.5	DEVIATION FROM TEST STANDARD	18
4.2.6	TEST SETUP	19
4.2.7	EUT OPERATING CONDITIONS	19
4.2.8	TEST RESULTS.....	20
4.2.9	TEST RESULTS.....	21
4.3	PEAK TRANSMIT POWER MEASUREMENT.....	32
4.3.1	LIMITS OF PEAK TRANSMIT POWER MEASUREMENT.....	32
4.3.2	TEST INSTRUMENTS.....	32
4.3.3	TEST PROCEDURE	33
4.3.4	DEVIATION FROM TEST STANDARD	33
4.3.5	TEST SETUP.....	33
4.3.6	EUT OPERATING CONDITIONS	33
4.3.7	TEST RESULTS.....	34
4.4	PEAK POWER EXCURSION MEASUREMENT.....	58
4.4.1	LIMITS OF PEAK POWER EXCURSION MEASUREMENT.....	58
4.4.2	TEST INSTRUMENTS.....	58
4.4.3	TEST PROCEDURE	59
4.4.4	DEVIATION FROM TEST STANDARD	59
4.4.5	TEST SETUP.....	59
4.4.6	EUT OPERATING CONDITIONS	59



4.4.7	TEST RESULTS.....	60
4.5	PEAK POWER SPECTRAL DENSITY MEASUREMENT.....	73
4.5.1	LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT.....	73
4.5.2	TEST INSTRUMENTS.....	73
4.5.3	TEST PROCEDURES.....	74
4.5.4	DEVIATION FROM TEST STANDARD	74
4.5.5	TEST SETUP.....	74
4.5.6	EUT OPERATING CONDITIONS	74
4.5.7	TEST RESULTS.....	75
4.6	FREQUENCY STABILITY.....	88
4.6.1	LIMITS OF FREQUENCY STABILITY MEASUREMENT.....	88
4.6.2	TEST INSTRUMENTS.....	88
4.6.3	TEST PROCEDURE	88
4.6.4	DEVIATION FROM TEST STANDARD	88
4.6.5	TEST SETUP.....	89
4.6.6	EUT OPERATING CONDITION.....	89
4.6.7	TEST RESULTS.....	90
4.7	BAND EDGES MEASUREMENT.....	91
4.7.1	TEST INSTRUMENTS.....	91
4.7.2	TEST PROCEDURE	91
4.7.3	EUT OPERATING CONDITION.....	91
4.7.4	TEST RESULTS.....	92
4.8	ANTENNA REQUIREMENT.....	97
4.8.1	STANDARD APPLICABLE.....	97
4.8.2	ANTENNA CONNECTED CONSTRUCTION.....	97
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	98
6.	INFORMATION ON THE TESTING LABORATORIES.....	100



1. CERTIFICATION

PRODUCT : Wireless LAN Access Point 8500
BRAND NAME : 3Com
MODEL NO. : 3CRWE850075A
APPLICANT : Accton Technology Corporation
STANDARDS : 47 CFR Part 15, Subpart E (Section 15.407) and
Subpart B, ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Feb. 22 to Mar. 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: Amanda Chu, **DATE:** Apr. 10, 2003
(Amanda Chu)

APPROVED BY: Eric Lin, **DATE:** Apr. 10, 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 E			
Standard Section	Test Type	Result	REMARK
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is -12.25dBuV at 1.240MHz
15.407(b/1/2/3)(b)(5)	Electric Field Strength Spurious Emissions, 30 MHz – 40000 MHz	PASS	Meet the requirement of limit Minimum passing margin is -0.6dBuV at 5715.00MHz & 5725.00MHz
15.407(a/1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit
15.407(a/1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless LAN Access Point 8500
MODEL NO.	3CRWE850075A
POWER SUPPLY	48VDC from POE (Power Over Ethernet)
MODULATION	OFDM
TRANSFER RATE	6 to 54Mbps *(Turbo mode : up to 108Mbps)
FREQUENCY RANGE	5.15GHz ~ 5.35GHz, 5.725GHz ~ 5.825GHz
BAND WIDTH OF EACH CHANNEL	20MHz (Normal mode) 40MHz (Turbo mode)
NUMBER OF CHANNEL	12 for Normal mode / 5 for Turbo mode
CHANNEL SPACING	20MHz for Normal mode / 40MHz for Turbo mode
OUTPUT POWER	19.77dBm
DATA CABLE	NA
ANTENNA TYPE	Detachable Antenna
I/O PORTS	Console port x 1, RJ 45 port x 1
ASSOCIATED DEVICES	NA

NOTE:

- The EUT was powered by the following POE (Power Over Ethernet):

Brand:	3Com
Model No.:	PW130
Input power :	AC100-250V, 0.5A, 50/60Hz
Output power :	DC 48V, 0.42A

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

3.2 DESCRIPTION OF TEST MODES

Twelve channels are provided to this EUT for Normal mode.

Channel	Frequency	Channel	Frequency
1	5180 MHz	7	5300 MHz
2	5200 MHz	8	5320 MHz
3	5220 MHz	9	5745MHz
4	5240 MHz	10	5765MHz
5	5260 MHz	11	5785MHz
6	5280 MHz	12	5805MHz

Five channels are provided to this EUT for Turbo Mode.

Channel	Frequency	Channel	Frequency
1	5210 MHz	4	5760MHz
2	5250 MHz	5	5800MHz
3	5290 MHz		

NOTE:

1. The EUT was transmitting at full power on the specified channel with a duty cycle of 99% (maximum allowed). The EUT was tested in both normal mode (channel bandwidth of approximately 30MHz) and turbo mode (channel bandwidth of approximately 60MHz).
2. "Normal Mode" allows data rates of up to 54Mbps. The device was, therefore, tested in Normal mode at the data rate that produced the highest output power for normal mode (6Mbps).
3. "Turbo Mode" allows data rates of up to 108Mbps. At data rates higher than 12Mbps the PA gain is reduced to improve signal fidelity. The device was, therefore, tested in turbo mode at the data rate that produced the highest output power for turbo mode (12Mbps).
4. Channel 1, 4, 5, 8, 9 and 12 are the closest frequencies to the band edge, were chosen for final test of Normal Mode.
5. Channel 1 ~ 5 were chosen for final test of turbo mode.
6. The EUT was pre-scanned under vertical and horizontal mode. The worst radiated emission was found in horizontal mode. The horizontal mode, worst case one, was chosen for final test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless LAN Access Point 8500 According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart E (15.407) and Subpart B.

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.



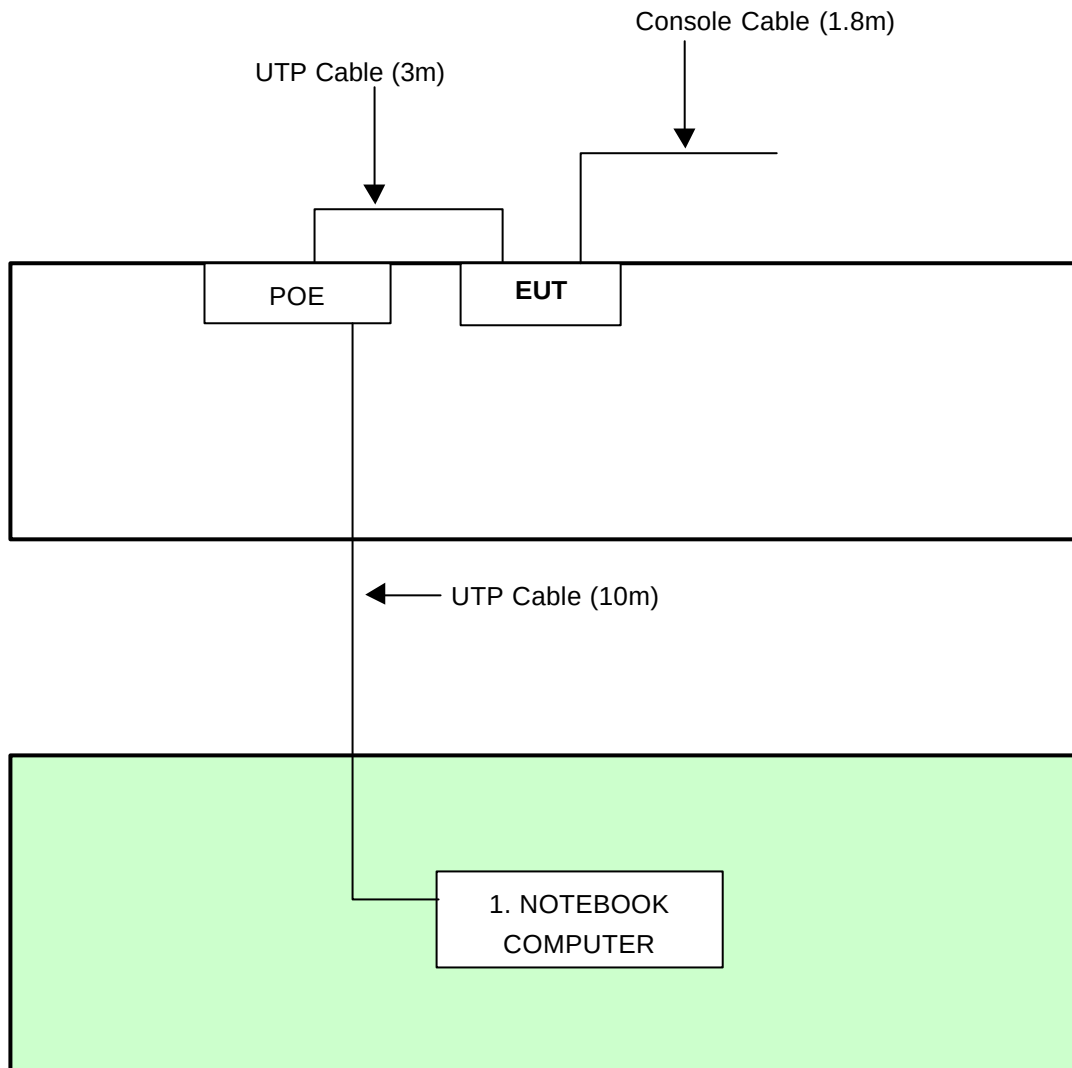
3.4 DESCRIPTION OF SUPPORT UNITS

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

No.	Signal cable description
1	NA

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



NOTE: 1. Support unit 1 was 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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	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.

4.1.2 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.



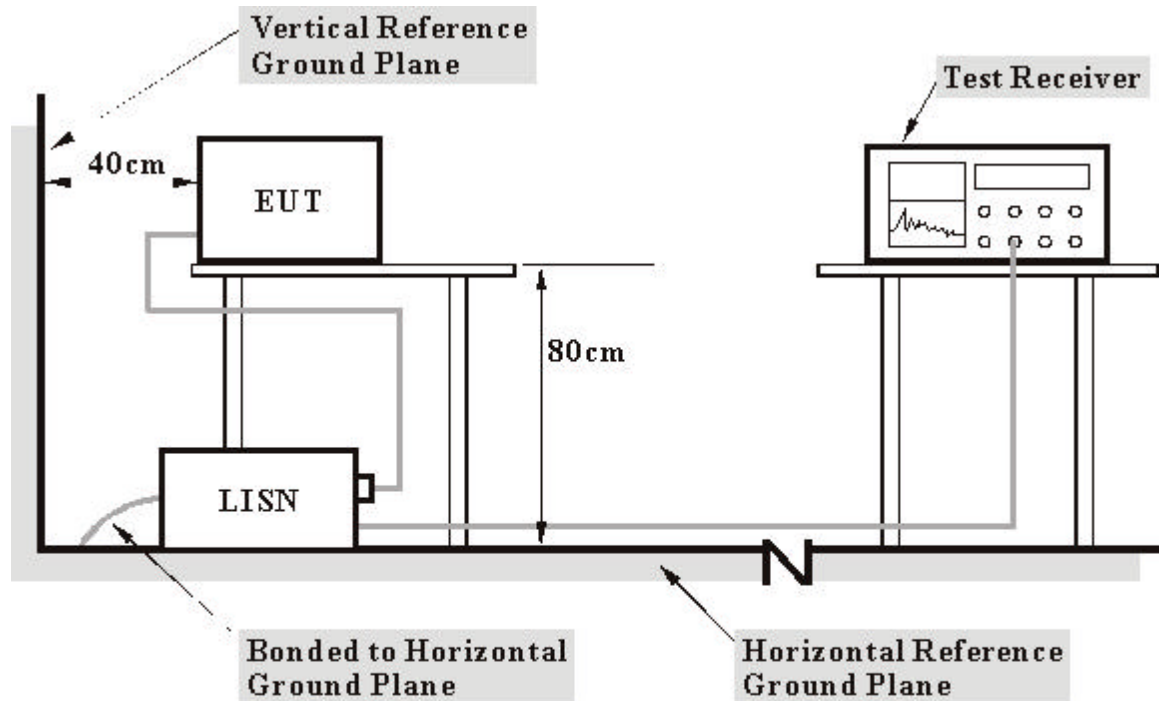
4.1.3 TEST PROCEDURES

- 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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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.

4.1.6 EUT OPERATING CONDITIONS

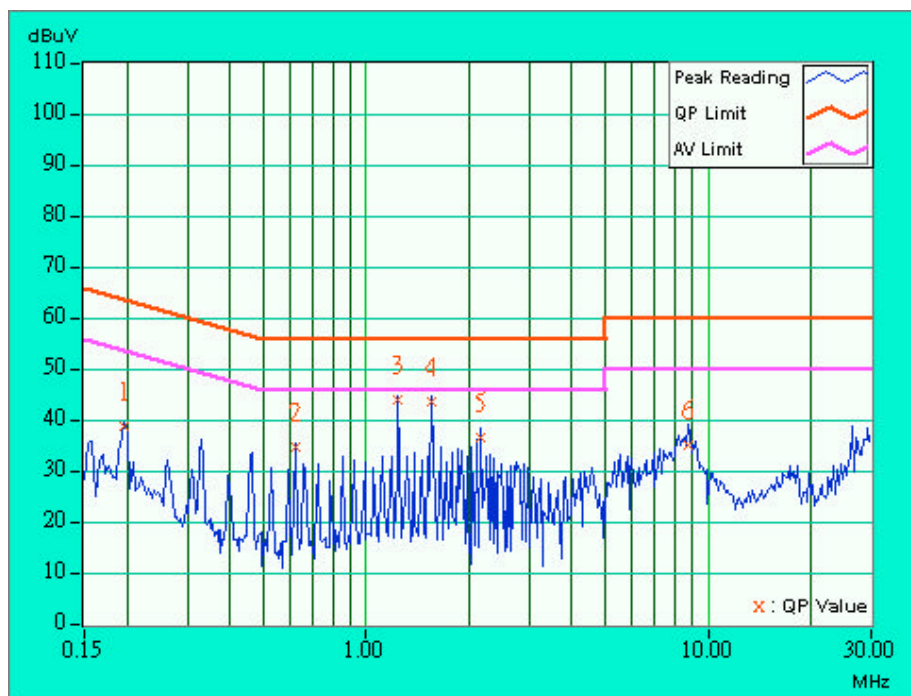
- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ 45 cable and wireless.
- d. The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
		6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60RH, 976 hPa	TESTED BY	Tony Chen

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.10	38.18	-	38.28	-	63.74	53.74	-25.46	-
2	0.619	0.10	34.19	-	34.29	-	56.00	46.00	-21.71	-
3	1.240	0.10	43.65	-	43.75	-	56.00	46.00	-12.25	-
4	1.548	0.10	43.03	-	43.13	-	56.00	46.00	-12.87	-
5	2.173	0.11	36.01	-	36.12	-	56.00	46.00	-19.88	-
6	8.699	0.56	34.80	-	35.36	-	60.00	50.00	-24.64	-

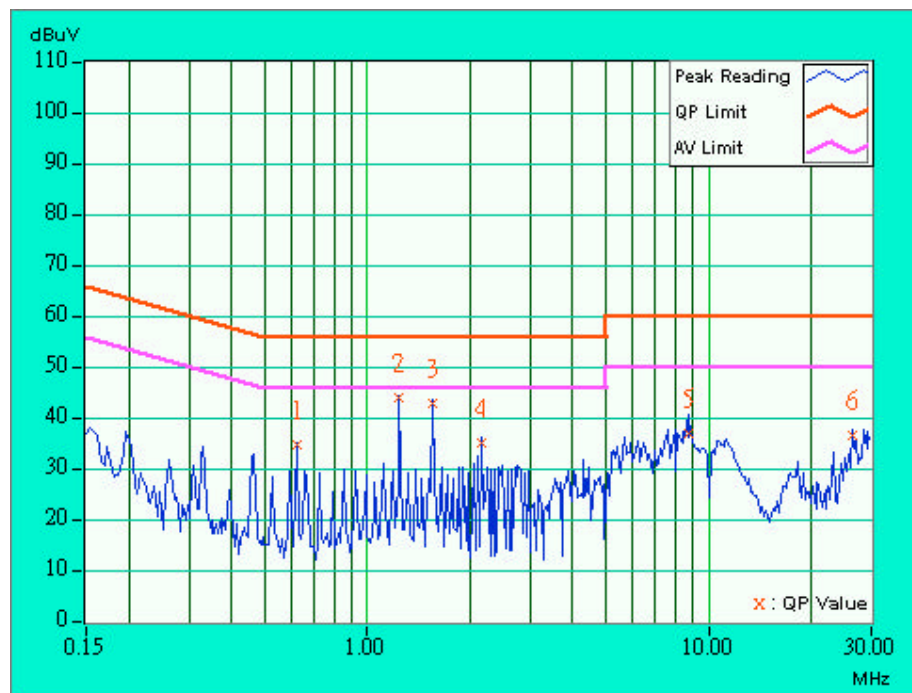
- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5)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



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
		6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60RH, 976 hPa	TESTED BY	Tony Chen

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.619	0.10	33.77	-	33.87	-	56.00	46.00	-22.13	-
2	1.240	0.10	43.21	-	43.31	-	56.00	46.00	-12.69	-
3	1.548	0.10	41.90	-	42.00	-	56.00	46.00	-14.00	-
4	2.173	0.11	34.15	-	34.26	-	56.00	46.00	-21.74	-
5	8.695	0.48	36.03	-	36.51	-	60.00	50.00	-23.49	-
6	26.488	0.90	35.72	-	36.62	-	60.00	50.00	-23.38	-

- NOTES: (1) "x": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "x": 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

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 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E = \frac{1000000 \sqrt{30P}}{3} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts)}$$



4.2.3 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, 2003
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.



4.2.4 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 10dB 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

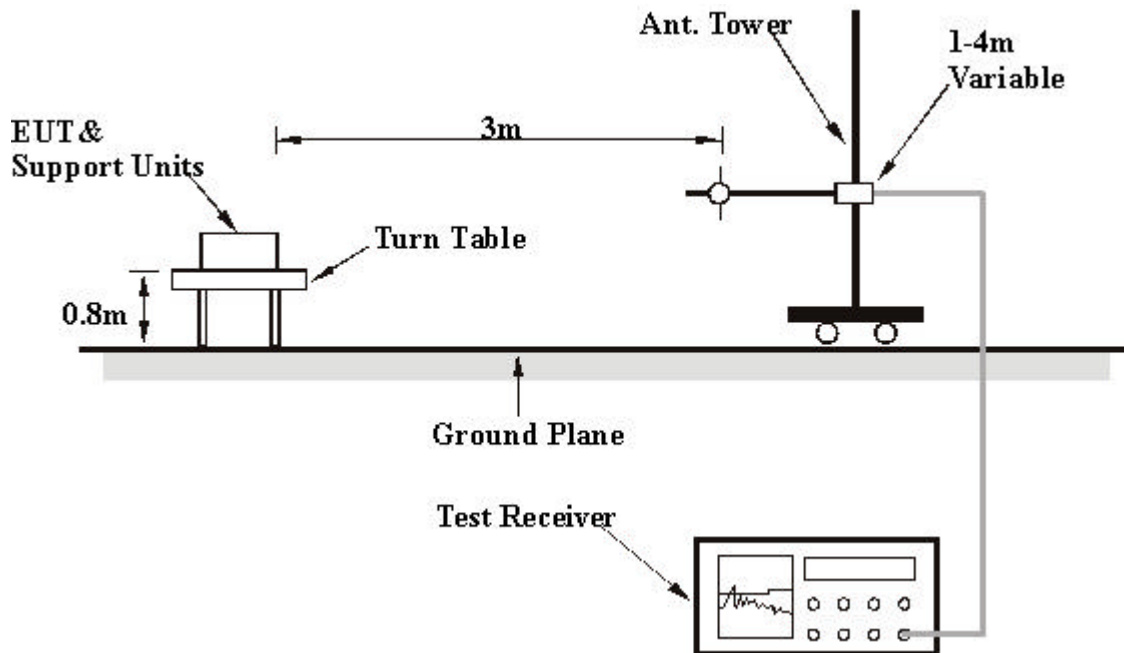
NOTE:

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 and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection 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.

4.2.5 DEVIATION FROM TEST STANDARD

No deviation

4.2.6 TEST SETUP



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

4.2.7 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.8 TEST RESULTS

EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	38.74	24.8 QP	40.00	-15.20	1.43 H	17	10.30	14.50
2	55.26	29.9 QP	40.00	-10.10	2.37 H	219	21.20	8.60
3	56.78	28.4 QP	40.00	-11.60	3.15 H	177	19.70	8.60
4	142.70	32.1 QP	43.50	-11.40	2.02 H	153	19.70	12.40
5	148.13	33.5 QP	43.50	-10.00	2.08 H	143	22.40	11.10
6	162.54	26.7 QP	43.50	-16.80	2.22 H	149	15.30	11.40
7	256.19	32.5 QP	46.00	-13.50	1.39 H	162	17.90	14.60
8	320.00	32.4 QP	46.00	-13.60	1.20 H	162	16.60	15.80
9	384.00	33.2 QP	46.00	-12.80	1.00 H	172	15.30	17.90
10	400.02	34.2 QP	46.00	-11.80	1.04 H	61	15.70	18.50
11	439.99	34.9 QP	46.00	-11.10	1.00 H	11	16.10	18.80
12	800.00	31.9 QP	46.00	-14.10	1.20 H	159	8.70	23.20

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	38.96	31.7 QP	40.00	-8.30	1.12 V	332	17.30	14.30
2	43.83	33.0 QP	40.00	-7.00	1.46 V	134	21.50	11.50
3	143.25	39.3 QP	43.50	-4.20	1.00 V	153	27.10	12.30
4	148.13	39.0 QP	43.50	-4.50	1.00 V	158	28.00	11.10
5	163.95	33.2 QP	43.50	-10.30	1.00 V	157	21.80	11.40
6	264.00	28.6 QP	46.00	-17.40	1.98 V	62	13.80	14.80
7	480.08	28.6 QP	46.00	-17.40	1.12 V	146	8.90	19.70
8	800.06	31.7 QP	46.00	-14.30	1.29 V	140	8.50	23.20
9	850.06	29.0 QP	46.00	-17.00	1.94 V	281	5.20	23.80
10	900.06	27.5 QP	46.00	-18.50	2.32 V	299	3.40	24.10

- 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

4.2.9 TEST RESULTS

EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	43.6 PK	74.00	-30.40	1.09 H	64	6.60	37.00
2	#5150.00	50.0 PK	74.00	-24.00	1.74 H	73	13.00	37.00
3	*5180.00	94.9 PK			1.32 H	100	57.90	37.00
3	*5180.00	86.7 AV			1.32 H	100	49.70	37.00
4	#5376.00	45.6 PK	74.00	-28.40	1.47 H	67	8.60	37.00
5	10360.00	49.8 PK	68.3	-19.50	1.04 H	49	5.00	44.70

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	#5120.00	54.2 PK	74.00	-19.80	1.84 V	97	17.10	37.00
1	#5120.00	47.9 AV	54.00	-6.10	1.84 V	97	10.90	37.00
2	#5150.00	59.5 PK	74.00	-14.50	1.75 V	106	22.40	37.00
2	#5150.00	46.7 AV	54.00	-7.30	1.75 V	106	9.70	37.00
3	*5180.00	98.6 PK			1.32 V	106	61.60	37.00
3	*5180.00	90.2 AV			1.32 V	106	53.20	37.00
4	#5376.00	50.9 PK	74.00	-23.10	1.90 V	52	13.80	37.00
5	10360.00	41.4 PK	68.30	-26.90	1.31 V	55	-3.40	44.70

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	47.3 PK	74.00	-26.70	1.52 H	100	10.20	37.00
2	*5233.00	91.8 PK			2.09 H	114	54.80	37.00
2	*5233.00	83.7 AV			2.09 H	114	46.70	37.00
3	#5376.00	45.1 PK	74.00	-28.90	2.01 H	100	8.10	37.00
4	#5440.00	44.2 PK	74.00	-29.80	1.48 H	108	7.10	37.00
5	10480.00	51.1 PK	68.30	-17.20	1.23 H	136	6.10	45.00

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	#5120.00	49.3 PK	74.00	-24.70	1.70 V	69	12.30	37.00
2	*5233.00	96.9 PK			1.51 V	64	59.90	37.00
2	*5233.00	89.2 AV			1.51 V	64	52.20	37.00
3	#5376.00	49.3 PK	74.00	-24.70	1.70 V	69	12.30	37.00
4	#5440.00	47.4 PK	74.00	-26.60	1.59 V	67	10.30	37.00
5	10480.00	52.4 PK	68.30	-15.90	1.34 V	95	7.50	45.00

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5088.00	45.9 PK	74.00	-28.10	1.67 H	98	8.90	37.00
2	*5254.00	98.3 PK			1.38 H	118	61.30	37.00
2	*5254.00	90.7 AV			1.38 H	118	53.70	37.00
3	#5376.00	44.8 PK	74.00	-29.20	1.67 H	93	7.70	37.00
4	10520.00	59.2 PK	68.30	-9.10	1.06 H	135	14.00	45.20

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	#5088.00	48.3 PK	74.00	-25.70	1.86 V	98	11.20	37.00
2	*5254.00	100.9 PK			1.24 V	116	63.90	37.00
2	*5254.00	93.8 AV			1.24 V	116	56.80	37.00
3	#5376.00	46.9 PK	74.00	-27.10	1.58 V	92	9.90	37.00
4	10520.00	56.4 PK	68.30	-11.90	1.03 V	98	11.20	45.20

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5088.00	46.3 PK	74.00	-27.70	1.79 H	93	9.30	37.00
2	*5320.00	94.5 PK			1.35 H	67	57.40	37.00
2	*5320.00	86.3 AV			1.35 H	67	49.30	37.00
3	#5350.00	56.5 PK	74.00	-17.50	1.27 H	90	19.50	37.00
3	#5350.00	41.9 AV	54.00	-12.10	1.27 H	90	4.90	37.00
4	#10640.00	58.3 PK	74.00	-15.70	1.03 H	65	12.00	46.30

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	#5088.00	50.4 PK	74.00	-23.60	1.50 V	42	13.40	37.00
2	*5320.00	99.0 PK			1.85 V	65	61.90	37.00
2	*5320.00	90.7 AV			1.85 V	65	53.70	37.00
3	#5350.00	58.2 PK	74.00	-15.80	1.33 V	89	21.10	37.00
3	#5350.00	45.5 AV	54.00	-8.50	1.33 V	89	8.40	37.00
4	#10642.00	57.2 PK	74.00	-16.80	1.10 V	104	10.90	46.30

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#4596.00	42.7 PK	74.00	-31.30	1.37 H	90	7.50	35.20
2	#5440.00	48.0 PK	74.00	-26.00	1.65 H	70	11.00	37.00
3	5715.00	57.3 PK	68.30	-11.00	1.42 H	27	19.80	37.50
4	5725.00	69.2 PK	78.30	-9.10	1.50 H	132	31.70	37.50
5	*5742.00	97.0 PK			2.26 H	97	59.50	37.50
5	*5742.00	88.2 AV			2.26 H	97	50.60	37.50

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	#4596.00	45.2 PK	74.00	-28.80	1.71 V	105	10.00	35.20
2	#5439.00	51.1 PK	74.00	-22.90	1.67 V	112	14.10	37.00
2	#5439.00	44.1 AV	54.00	-9.90	1.67 V	112	7.10	35.20
3	5715.00	64.4 PK	68.30	-3.90	1.55 V	157	26.90	37.50
4	5725.00	77.7 PK	78.30	-0.60	2.10 V	117	40.20	37.50
5	*5742.00	102.6 PK			1.83 V	106	65.10	37.50
5	*5742.00	94.9 AV			1.83 V	106	57.30	37.50

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*”: Fundamental frequency
6. “# “ : The radiated frequency falling in the restricted band.



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5088.00	45.0 PK	74.00	-29.00	1.32 H	277	8.00	37.00
2	#5408.00	43.4 PK	74.00	-30.60	1.88 H	275	6.30	37.00
3	*5810.00	99.2 PK	74.00	25.20	2.06 H	308	61.50	37.70
3	*5810.00	90.4 AV	54.00	36.40	2.06 H	308	52.70	37.00
4	5825.00	64.0 PK			1.83 H	312	26.20	37.70
5	5835.00	55.7 PK			1.71 H	325	18.00	37.70
6	#11610.00	55.6 PK	74.00	-18.40	1.40 H	316	4.60	51.00

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	#5088.00	50.2 PK	74.00	-23.80	1.33 V	275	13.20	37.00
2	#5408.00	47.6 PK	74.00	-26.40	1.31 V	287	10.60	37.00
3	*5810.00	102.4 PK			1.60 V	309	64.70	37.70
3	*5810.00	94.2 AV			1.60 V	309	56.50	37.00
4	5825.00	77.3 PK	78.30	-1.00	1.13 V	277	39.60	37.70
5	5835.00	64.4 PK	68.30	-3.90	1.28 V	287	26.60	37.70
6	#11610.00	54.9 PK	74.00	-19.10	1.57 V	307	4.00	51.00

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*": Fundamental frequency
6. "#": The radiated frequency falling in the restricted band.



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	47.3 PK	74.00	-26.70	1.38 H	298	10.30	37.00
2	*5218.00	89.6 PK			1.40 H	274	52.60	37.00
2	*5218.00	82.3 AV			1.40 H	274	45.20	37.00
3	#5376.00	47.4 PK	74.00	-26.60	1.65 H	288	10.30	37.00
4	10420.00	51.4 PK	68.30	-16.90	1.10 H	357	6.60	44.80

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	#5120.00	50.4 PK	74.00	-23.60	1.26 V	281	13.40	37.00
2	*5211.00	98.5 PK			1.34 V	256	61.40	37.00
2	*5211.00	89.9 AV			1.34 V	256	52.80	37.00
3	#5376.00	48.6 PK	74.00	-25.40	1.70 V	288	11.50	37.00
4	10420.00	53.3 PK	68.30	-15.00	1.72 V	340	8.40	44.80

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	47.1 PK	74.00	-26.90	1.37 H	297	10.00	37.00
2	*5245.00	91.0 PK			1.76 H	289	53.90	37.00
2	*5245.00	83.9 AV			1.76 H	289	46.80	37.00
3	#5376.00	47.6 PK	74.00	-26.40	1.32 H	295	10.60	37.00
4	10500.00	49.8 PK	68.30	-8.50	1.26 H	274	4.80	45.00

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	#5120.00	50.1 PK	74.00	-23.90	1.27 V	289	13.10	37.00
2	*5245.00	94.2 PK			1.05 V	297	57.20	37.00
2	*5245.00	86.4 AV			1.05 V	297	49.40	37.00
3	#5376.00	51.7 PK	74.00	-22.30	1.00 V	305	14.60	37.00
3	#5376.00	42.8 AV	54.00	-11.20	1.00 V	305	5.80	37.00
4	10500.00	49.5 PK	68.30	-18.80	1.83 V	295	4.50	45.00

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	47.1 PK	74.00	-26.90	1.66 H	305	10.10	37.00
2	*5275.00	92.0 PK			1.46 H	83	54.90	37.00
2	*5275.00	84.4 AV			1.46 H	83	47.40	37.00
3	#5375.00	46.9 PK	74.00	-27.10	1.26 H	279	9.90	37.00
4	10580.00	51.9 PK	68.30	-16.40	1.54 H	308	6.20	45.70

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	#5120.00	47.9 PK	74.00	-26.10	1.75 V	309	10.80	37.00
2	*5275.00	95.8 PK			1.66 V	297	58.80	37.00
2	*5275.00	88.6 AV			1.66 V	297	51.60	37.00
3	#5375.00	55.1 PK	74.00	-18.90	1.59 V	275	18.00	37.00
3	#5375.00	45.7 AV	54.00	-8.30	1.59 V	275	8.70	37.00
4	10580.00	53.5 PK	68.30	-14.80	1.25 V	316	7.70	45.70

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	45.5 PK	74.00	-28.50	1.87 H	298	8.50	37.00
2	#5376.00	44.3 PK	74.00	-29.70	1.87 H	288	7.30	37.00
3	5715.00	59.2 PK	68.30	-9.1	1.57 H	213	21.70	37.50
4	5725.00	64.2 PK	78.30	-14.10	1.43 H	219	26.70	37.50
5	*5764.00	94.2 PK			1.24 H	277	56.60	37.60
5	*5764.00	87.0 AV			1.24 H	277	49.40	37.50
6	#11520.00	55.3 PK	74.00	-18.70	1.09 H	222	4.00	51.30
6	#11520.00	45.7 AV	54.00	-8.30	1.09 H	222	-5.60	37.50

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	#5120.00	46.9 PK	74.00	-27.10	1.26 V	309	9.90	37.00
2	#5376.00	51.3 PK	74.00	-22.70	1.25 V	275	14.20	37.00
2	#5376.00	44.9 AV	54.00	-9.10	1.25 V	275	7.90	37.00
3	5715.00	67.7 PK	68.30	-0.60	1.65 V	214	30.20	37.50
4	5725.00	76.6 PK	78.30	1.70	1.15 V	234	39.10	37.50
5	*5764.00	100.8 PK			1.45 V	276	63.20	37.60
5	*5764.00	92.8 AV			1.45 V	276	55.20	37.50
6	#11520.00	56.8 PK	74.00	-17.20	1.29 V	238	5.50	51.30
6	#11520.00	46.2 AV	54.00	-7.80	1.29 V	238	-5.10	37.60

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eic 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	#5120.00	45.0 PK	74.00	-29.00	1.14 H	92	8.00	37.00
2	*5784.00	93.5 PK			1.21 H	294	55.80	37.60
2	*5784.00	85.8 AV			1.21 H	294	48.20	37.00
3	5825.00	68.7 PK	78.30	-8.60	1.82 H	296	31.00	37.70
4	5835.00	62.5 PK	68.30	-5.80	1.60 H	175	24.80	37.70
5	#11600.00	55.0 PK	74.00	-19.00	1.53 H	294	4.00	51.00
5	#11600.00	45.0 AV	54.00	-9.00	1.53 H	294	-6.00	37.70

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	#5120.00	48.9 PK	74.00	-25.10	1.29 V	52	11.90	37.00
2	*5784.00	100.9 PK			1.21 V	257	63.30	37.60
2	*5784.00	92.8 AV			1.21 V	257	55.20	37.00
3	5825.00	77.1 PK	78.30	-1.20	1.59 V	301	39.40	37.70
4	5835.00	67.2 PK	68.30	-1.10	1.94 V	309	29.50	37.70
5	#11600.00	56.5 PK	74.00	-17.50	1.76 V	276	5.50	51.00
5	#11600.00	46.1 AV	54.00	-7.90	1.76 V	276	-4.90	37.70

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

4.3 PEAK TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35 GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825 GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

Note: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

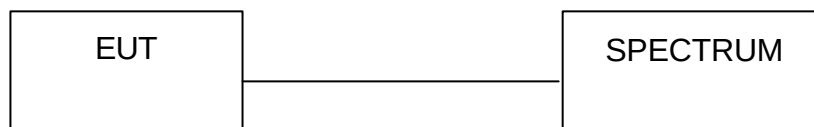
4.3.3 TEST PROCEDURE

2. The transmitter output was connected to the spectrum analyzer.
3. Set span to encompass the entire emission bandwidth of the signal.
4. Set RBW to 1MHz, VBW to 300kHz.
5. Using the spectrum analyzer's channel power measurement function to measure the output power.

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 specific channel frequencies individually.



4.3.7 TEST RESULTS

EUT	Wireless LAN Access Point 8500	MODEL	3CRWE850075A
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	19eg. C, 64RH, 976 hPa	TESTED BY	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	16.42	17	30.48	PASS
4	5240	16.31	17	30.32	PASS
5	5260	23.03	24	30.88	PASS
8	5320	18.47	24	30.96	PASS
9	5745	23.40	30	29.44	PASS
12	5805	19.86	30	30.24	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

CHANNEL 1

