



FCC TEST REPORT

REPORT NO.: RF910613R04

MODEL NO.: 95-10

RECEIVED: June 13, 2002

TESTED: June 20 ~ June 27, 2002

APPLICANT: Madge Networks Ltd.

ADDRESS: Wexham Springs, Framewood Road, Wexham, Slough,
SL3 6PJ, England

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
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0528
ILAC MRA



Lab Code: 200102-0

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1 CERTIFICATION

PRODUCT : Smart Wireless Access Point 802.11b
BRAND NAME : MADGE
MODEL NO. : 95-10
APPLICANT : Madge Networks Ltd.
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 June 20 ~ June 27, 2002. 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: Rennie Wang, **DATE:** July 9, 2002
Rennie Wang

APPROVED BY: Alan Lane, **DATE:** July 9, 2002
Dr. Alan Lane
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 Limit: 48dBuV	PASS	Meet the requirement of limit Minimum passing margin is -2.02dBuV at 0.58MHz & 0.67MHz
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 -3.30dBuV at 2088.00MHz
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	Smart Wireless Access Point 802.11b
MODEL NO.	95-10
POWER SUPPLY	5VDC from AC adapter
MODULATION TYPE	BPSK, QPSK, CCK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	15.23dBm
ANTENNA TYPE	Dipole antenna
I/O PORTS	RJ-45
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT can be powered by the supplied power adapter or POE (Power over Ethernet).
2. The EUT was operated with following AC adapter and POE:

AC Adapter	
Brand Name :	SINO-AMERICAN
Model No.:	SA15-0520V
Input power :	AC100-240V ~ 50/60Hz 350Ma
Output power :	5V---2000mA

POE (Injector of Power over Ethernet)	
Serial No.:	0000046
Input power :	AC 100-240V
Output power :	48V/0.35A

3. Two test modes were provided to this EUT. One was tested with AC Adapter, and another was tested with POE.
4. 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 in 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. For Conducted emission measurement and Radiated emission measurement test (below 1GHz), the test result A was tested with AC Adapter, and the test result B was tested with POE.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Smart Wireless Access Point 802.11b. 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	DELL	PP01L	TW-09C748-12800-190-B220	FCC DoC Approved
2	PERSONAL COMPUTER	HP	Brio BA410	SG12902766	FCC DoC Approved
3	USB MOUSE	LOGITECH	M-BB48	LZA00354277	FCC DoC Approved
4	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC Approved
5	MODEM	ACEEX	1414	980020503	IFAXDM1414
6	PS/2 KEYBOARD	BTC	5121W	A00801156	E5XKB5121WTH01
7	COLOR MONITOR	ADI	CM100	026058T102006 11 A	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	NA
4	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
5	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
6	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
7	1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.45 – 30	48	-

NOTE:

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	847793/022	Mar. 12, 2003
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 19, 2002
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 25, 2002
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Dec. 2, 2002
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Dec. 2, 2002
EMCO-L.I.S.N. (for peripheral)	3825/2	90031627	July 19, 2002
Software	Cond-V2L	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	July 19, 2002
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-305	Feb. 20, 2003
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-306	Feb. 20, 2003
Shielded Room	Site 5	ADT-C05	NA
VCCI Site Registration No.	Site 5	C-1093	NA

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.

3. “*”: These equipment are used for conducted telecom port test only (if tested).



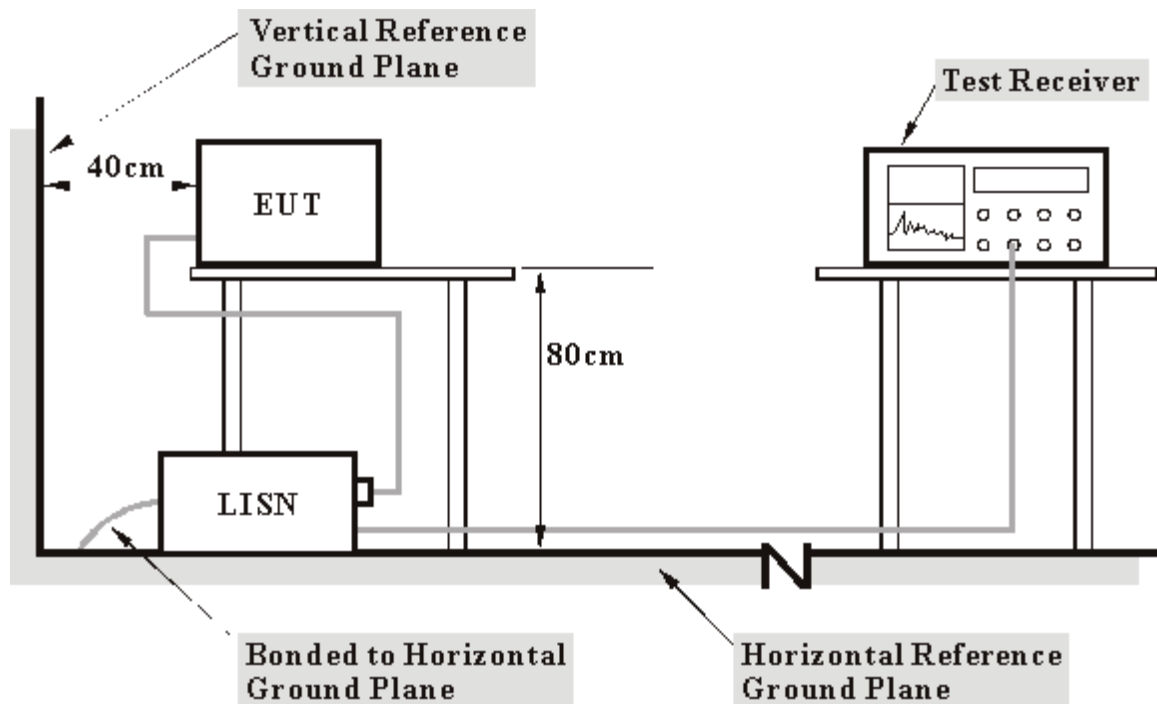
4.1.3 TEST PROCEDURES

- 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 450 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

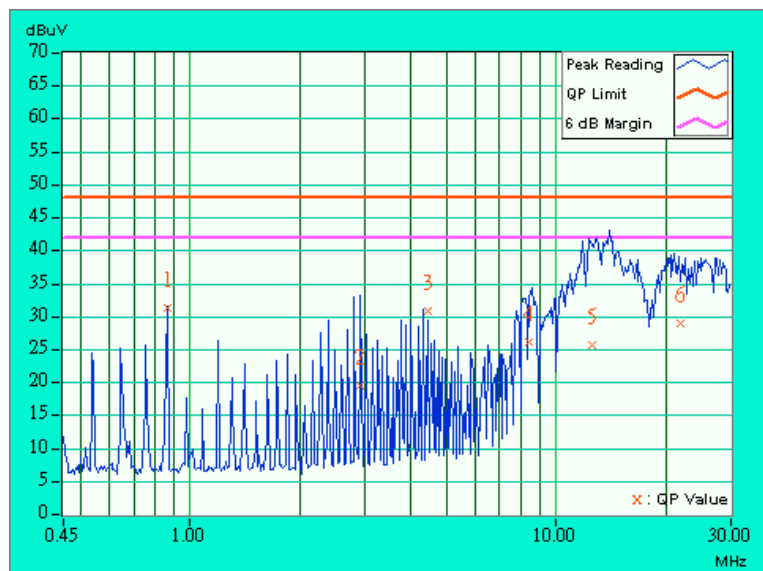
- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via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

4.1.7 TEST RESULTS (A)

EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.864	0.18	30.39	-	30.57	-	48.00	-	-17.43	-
2	2.914	0.29	18.54	-	18.83	-	48.00	-	-29.17	-
3	4.438	0.41	29.73	-	30.14	-	48.00	-	-17.86	-
4	8.438	0.55	25.12	-	25.67	-	48.00	-	-22.33	-
5	12.547	0.65	24.68	-	25.33	-	48.00	-	-22.67	-
6	21.750	1.07	27.97	-	29.04	-	48.00	-	-18.96	-

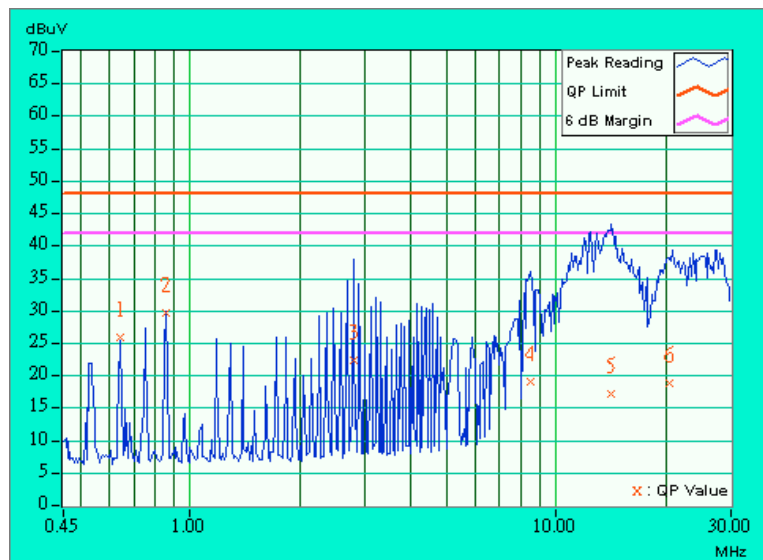
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.641	0.14	25.13	-	25.27	-	48.00	-	-22.73	-
2	0.856	0.18	28.80	-	28.98	-	48.00	-	-19.02	-
3	2.785	0.24	21.56	-	21.80	-	48.00	-	-26.20	-
4	8.469	0.37	18.33	-	18.70	-	48.00	-	-29.30	-
5	14.039	0.48	16.30	-	16.78	-	48.00	-	-31.22	-
6	20.371	0.79	17.97	-	18.76	-	48.00	-	-29.24	-

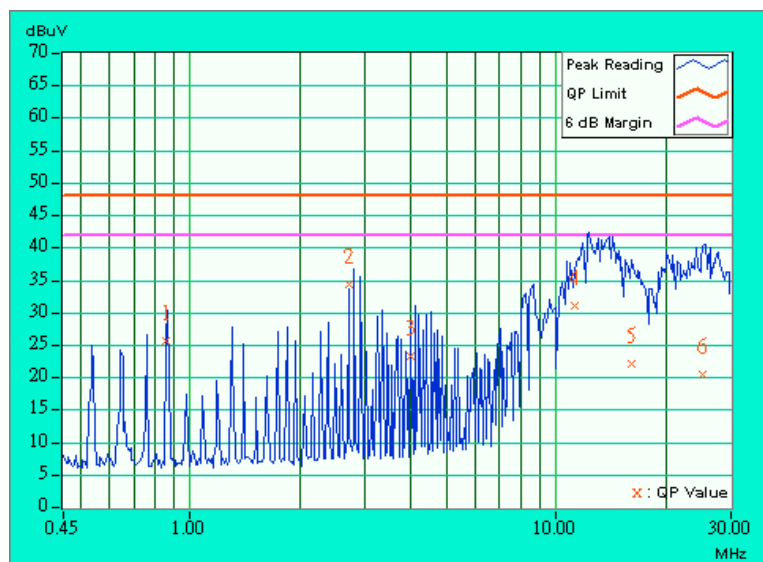
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 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.860	0.18	24.49	-	24.67	-	48.00	-	-23.33	-
2	2.703	0.27	33.22	-	33.49	-	48.00	-	-14.51	-
3	3.996	0.40	22.09	-	22.49	-	48.00	-	-25.51	-
4	11.242	0.62	29.81	-	30.43	-	48.00	-	-17.57	-
5	15.992	0.76	20.97	-	21.73	-	48.00	-	-26.27	-
6	25.074	1.20	19.21	-	20.41	-	48.00	-	-27.59	-

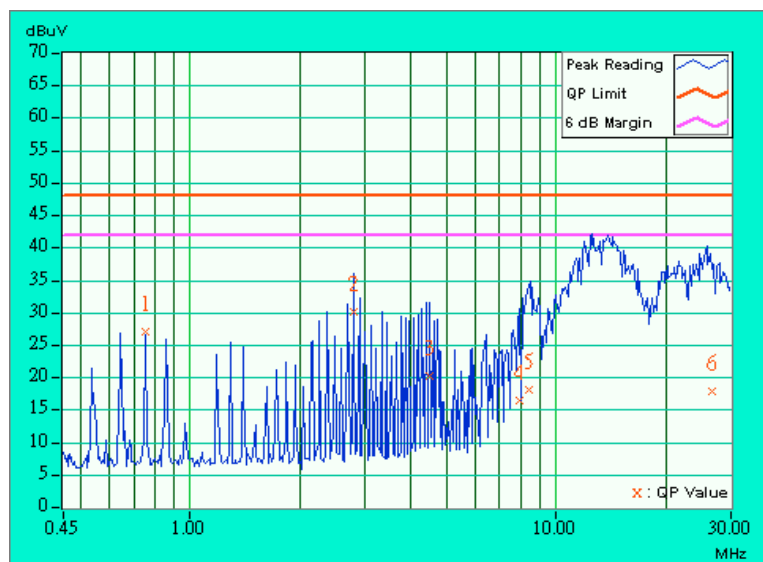
- Remarks:
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 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.751	0.16	26.26	-	26.42	-	48.00	-	-21.58	-
2	2.793	0.24	29.51	-	29.75	-	48.00	-	-18.25	-
3	4.516	0.31	19.45	-	19.76	-	48.00	-	-28.24	-
4	7.957	0.37	15.76	-	16.13	-	48.00	-	-31.87	-
5	8.387	0.37	17.53	-	17.90	-	48.00	-	-30.10	-
6	26.664	0.73	17.16	-	17.89	-	48.00	-	-30.11	-

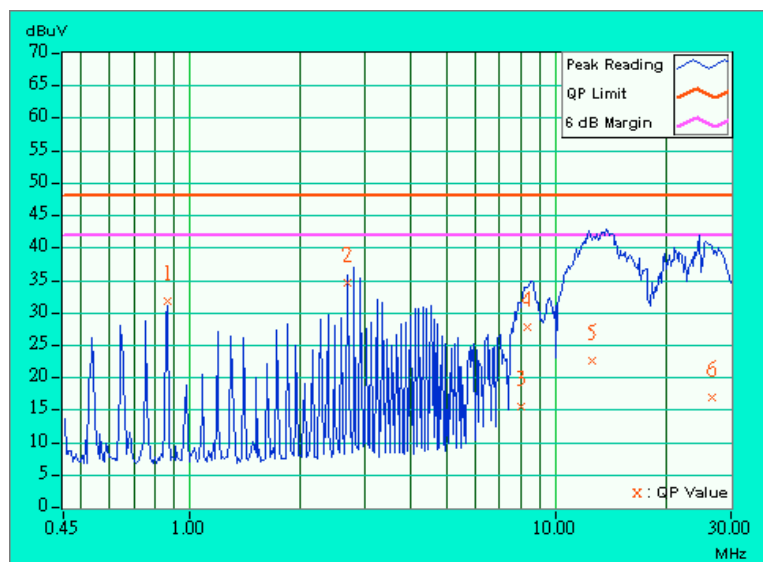
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 4. The emission levels of other frequencies were very low against the limit.
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EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.864	0.18	30.63	-	30.81	-	48.00	-	-17.19	-
2	2.699	0.27	33.30	-	33.57	-	48.00	-	-14.43	-
3	7.984	0.53	14.24	-	14.77	-	48.00	-	-33.23	-
4	8.313	0.54	26.52	-	27.06	-	48.00	-	-20.94	-
5	12.520	0.65	21.50	-	22.15	-	48.00	-	-25.85	-
6	26.539	1.23	15.70	-	16.93	-	48.00	-	-31.07	-

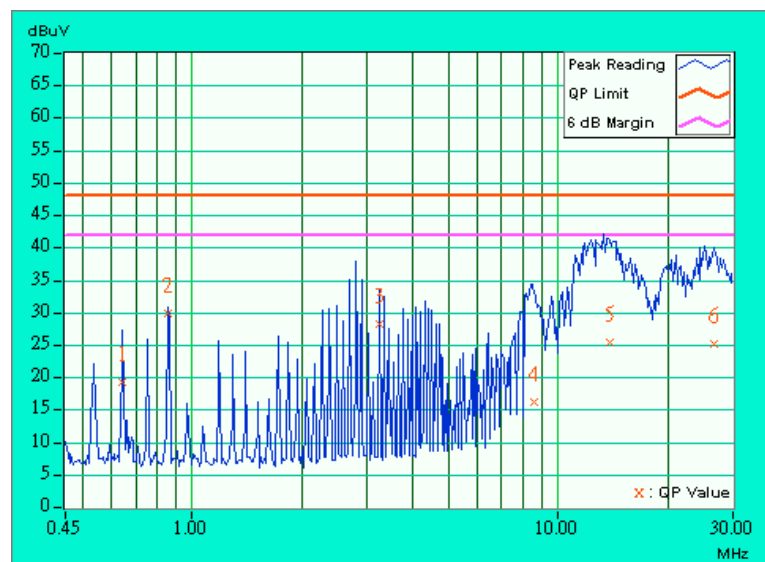
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 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.641	0.14	18.57	-	18.71	-	48.00	-	-29.29	-
2	0.860	0.18	29.20	-	29.38	-	48.00	-	-18.62	-
3	3.230	0.26	27.54	-	27.80	-	48.00	-	-20.20	-
4	8.617	0.38	15.61	-	15.99	-	48.00	-	-32.01	-
5	13.785	0.48	24.77	-	25.25	-	48.00	-	-22.75	-
6	26.609	0.73	24.45	-	25.18	-	48.00	-	-22.82	-

- Remarks:
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 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

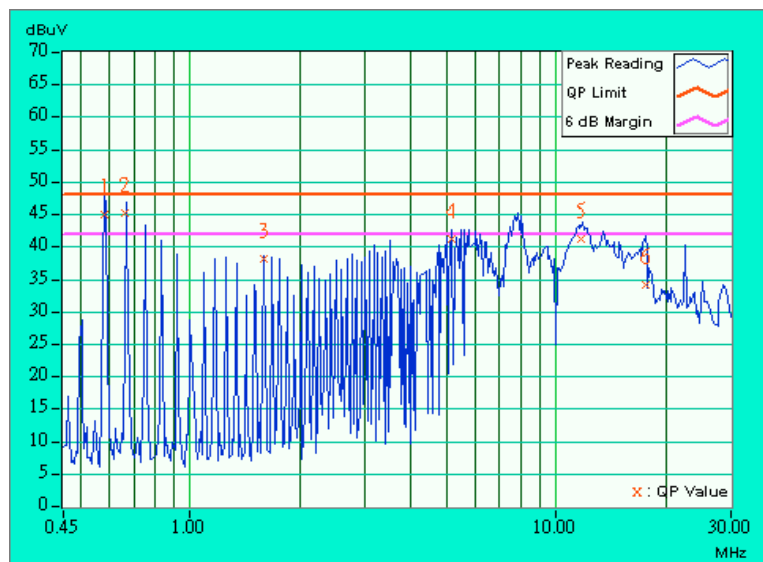


4.1.8 TEST RESULTS (B)

EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.581	0.13	44.14	-	44.27	-	48.00	-	-3.73	-
2	0.665	0.14	44.50	-	44.64	-	48.00	-	-3.36	-
3	1.586	0.20	37.31	-	37.51	-	48.00	-	-10.49	-
4	5.184	0.44	40.46	-	40.90	-	48.00	-	-7.10	-
5	11.703	0.63	40.30	-	40.93	-	48.00	-	-7.07	-
6	17.477	0.85	33.33	-	34.18	-	48.00	-	-13.82	-

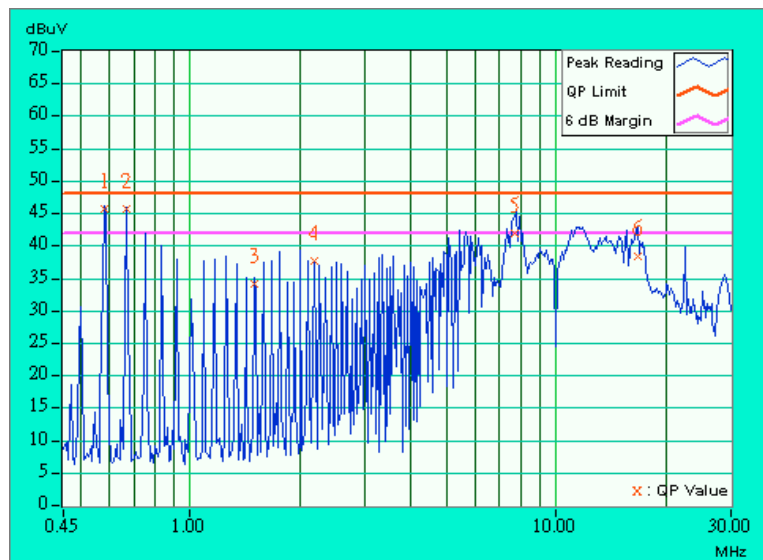
- Remarks:
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 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
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 5. Margin value = Emission level - Limit value
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EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	45.13	-	45.26	-	48.00	-	-2.74	-
2	0.669	0.14	45.08	-	45.22	-	48.00	-	-2.78	-
3	1.500	0.20	33.61	-	33.81	-	48.00	-	-14.19	-
4	2.172	0.21	37.09	-	37.30	-	48.00	-	-10.70	-
5	7.680	0.36	41.47	-	41.83	-	48.00	-	-6.17	-
6	16.625	0.60	37.77	-	38.37	-	48.00	-	-9.63	-

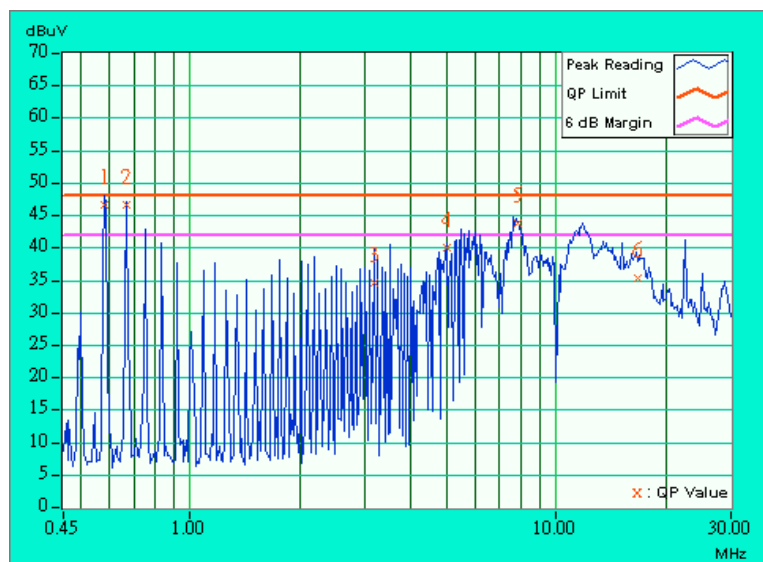
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.582	0.13	45.85	-	45.98	-	48.00	-	-2.02	-
2	0.667	0.14	45.84	-	45.98	-	48.00	-	-2.02	-
3	3.168	0.32	33.74	-	34.06	-	48.00	-	-13.94	-
4	5.016	0.43	39.18	-	39.61	-	48.00	-	-8.39	-
5	7.859	0.53	42.94	-	43.47	-	48.00	-	-4.53	-
6	16.641	0.80	34.62	-	35.42	-	48.00	-	-12.58	-

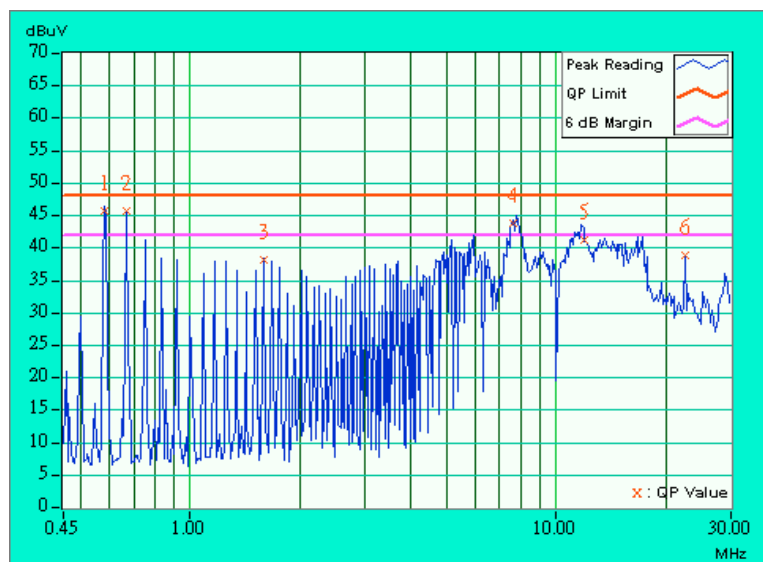
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	45.03	-	45.16	-	48.00	-	-2.84	-
2	0.669	0.14	44.88	-	45.02	-	48.00	-	-2.98	-
3	1.586	0.20	37.35	-	37.55	-	48.00	-	-10.45	-
4	7.609	0.36	43.12	-	43.48	-	48.00	-	-4.52	-
5	11.875	0.44	40.41	-	40.85	-	48.00	-	-7.15	-
6	22.570	0.75	38.22	-	38.97	-	48.00	-	-9.03	-

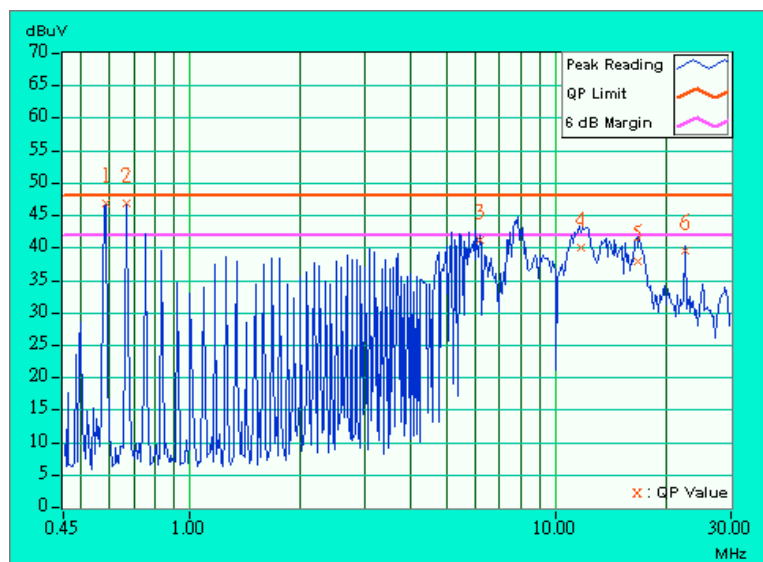
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	45.78	-	45.91	-	48.00	-	-2.09	-
2	0.670	0.14	45.70	-	45.84	-	48.00	-	-2.16	-
3	6.184	0.47	40.09	-	40.56	-	48.00	-	-7.44	-
4	11.688	0.63	39.00	-	39.63	-	48.00	-	-8.37	-
5	16.625	0.80	36.93	-	37.73	-	48.00	-	-10.27	-
6	22.570	1.10	38.46	-	39.56	-	48.00	-	-8.44	-

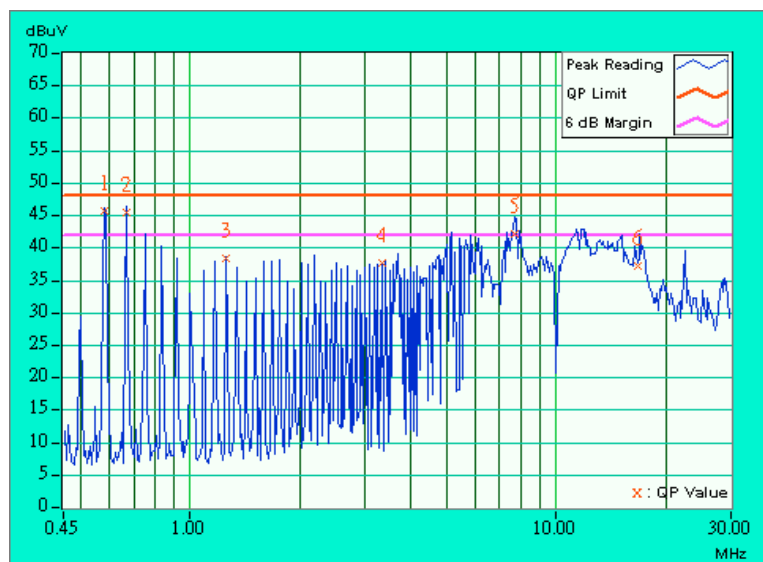
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	45.19	-	45.32	-	48.00	-	-2.68	-
2	0.669	0.14	44.98	-	45.12	-	48.00	-	-2.88	-
3	1.254	0.20	37.75	-	37.95	-	48.00	-	-10.05	-
4	3.340	0.27	37.00	-	37.27	-	48.00	-	-10.73	-
5	7.680	0.36	41.67	-	42.03	-	48.00	-	-5.97	-
6	16.621	0.60	36.57	-	37.17	-	48.00	-	-10.83	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading 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	8590L	3544A01176	May 13, 2003
* HP Preamplifier	8447D	2944A08485	Oct. 30, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2002
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 3, 2003
* EMCO Horn Antenna	3115	9312-4192	April 9, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA

NOTE: 1. The measurement uncertainty is less than +/- 3.0dB, 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.

3. "*" = These equipment are used for the final measurement.

4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

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.

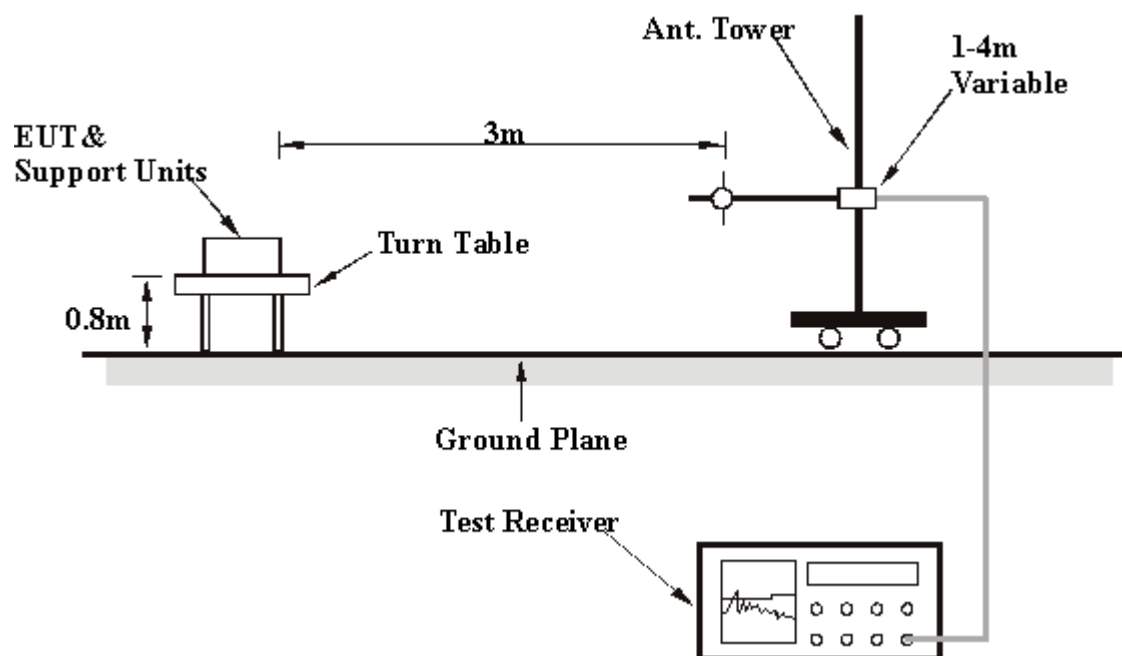
NOTE:

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	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	25.6 QP	43.50	-17.90	1.34H	150	13.99	10.30	1.31	0.00	-11.61
2	250.00	32.6 QP	46.00	-13.40	1.41H	251	18.85	12.02	1.73	0.00	-13.75
3	264.00	27.6 QP	46.00	-18.40	1.47H	63	12.98	12.89	1.73	0.00	-14.63
4	300.00	28.7 QP	46.00	-17.30	1.20H	360	13.64	13.18	1.88	0.00	-15.06
5	308.00	25.8 QP	46.00	-20.20	1.24H	22	10.50	13.38	1.92	0.00	-15.31
6	325.00	33.5 QP	46.00	-12.50	1.20H	307	17.77	13.72	2.00	0.00	-15.73
7	350.00	34.8 QP	46.00	-11.20	1.32H	222	18.47	14.21	2.12	0.00	-16.33
8	352.00	30.7 QP	46.00	-15.30	1.22H	98	14.27	14.31	2.12	0.00	-16.43
9	396.00	23.5 QP	46.00	-22.50	1.11H	159	5.38	15.96	2.17	0.00	-18.12
10	400.00	28.9 QP	46.00	-17.10	1.45H	134	10.62	16.11	2.17	0.00	-18.28
11	450.00	28.1 QP	46.00	-17.90	1.53H	41	9.39	16.37	2.34	0.00	-18.71
12	500.00	34.9 QP	46.00	-11.10	1.44H	57	15.15	17.26	2.49	0.00	-19.76
13	550.00	35.9 QP	46.00	-10.10	1.43H	3	15.25	17.93	2.72	0.00	-20.65
14	600.00	27.1 QP	46.00	-18.90	1.27H	311	5.64	18.61	2.85	0.00	-21.47
15	700.00	38.2 QP	46.00	-7.80	1.32H	238	15.65	19.31	3.24	0.00	-22.56
16	750.00	34.5 QP	46.00	-11.50	1.36H	175	10.98	20.18	3.34	0.00	-23.52
17	800.00	36.3 QP	46.00	-9.70	1.21H	103	12.24	20.69	3.38	0.00	-24.06
18	850.00	36.8 QP	46.00	-9.20	1.16H	41	12.71	20.48	3.61	0.00	-24.10
19	900.00	32.0 QP	46.00	-14.00	1.03H	33	7.49	20.80	3.66	0.00	-24.48

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	34.5 QP	43.50	-9.00	1.46V	61	21.80	11.47	1.23	0.00	-12.70
2	175.00	30.2 QP	43.50	-13.30	1.56V	24	19.75	9.08	1.37	0.00	-10.45
3	250.00	28.3 QP	46.00	-17.70	1.31V	3	14.55	12.02	1.73	0.00	-13.75
4	275.00	22.0 QP	46.00	-24.00	1.51V	44	7.62	12.59	1.79	0.00	-14.38
5	300.00	26.8 QP	46.00	-19.20	1.58V	136	11.74	13.18	1.88	0.00	-15.06
6	308.00	25.6 QP	46.00	-20.40	1.39V	183	10.30	13.38	1.92	0.00	-15.30
7	325.00	28.4 QP	46.00	-17.60	1.17V	356	12.67	13.72	2.00	0.00	-15.73
8	350.00	32.7 QP	46.00	-13.30	1.11V	324	16.37	14.21	2.12	0.00	-16.33
9	396.00	24.4 QP	46.00	-21.60	1.22V	254	6.28	15.96	2.17	0.00	-18.12
10	400.00	24.5 QP	46.00	-21.50	1.27V	222	6.22	16.11	2.17	0.00	-18.28
11	450.00	29.3 QP	46.00	-16.70	1.22V	119	10.59	16.37	2.34	0.00	-18.71
12	500.00	34.4 QP	46.00	-11.60	1.35V	16	14.65	17.26	2.49	0.00	-19.75
13	550.00	33.6 QP	46.00	-12.40	1.55V	89	12.95	17.93	2.72	0.00	-20.65
14	600.00	27.9 QP	46.00	-18.10	1.69V	208	6.44	18.61	2.85	0.00	-21.46
15	650.00	32.5 QP	46.00	-13.50	1.81V	293	10.24	19.23	3.03	0.00	-22.26
16	700.00	35.7 QP	46.00	-10.30	1.73V	119	13.15	19.31	3.24	0.00	-22.55
17	750.00	40.1 QP	46.00	-5.90	1.76V	5	16.58	20.18	3.34	0.00	-23.52
18	800.00	29.4 QP	46.00	-16.60	1.56V	19	5.34	20.69	3.38	0.00	-24.07
19	850.00	28.8 QP	46.00	-17.20	1.39V	100	4.71	20.48	3.61	0.00	-24.09
20	950.00	30.7 QP	46.00	-15.30	1.46V	122	5.73	21.20	3.77	0.00	-24.98

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.8 TEST RESULTS (B)

EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	25.3 QP	43.50	-18.20	1.70H	201	13.69	10.30	1.31	0.00	-11.61
2	200.00	24.1 QP	43.50	-19.40	1.76H	110	13.72	8.98	1.40	0.00	-10.38
3	250.00	24.6 QP	46.00	-21.40	1.81H	19	10.85	12.02	1.73	0.00	-13.75
4	264.00	29.5 QP	46.00	-16.50	1.84H	350	14.88	12.89	1.73	0.00	-14.62
5	300.00	26.4 QP	46.00	-19.60	1.49H	28	11.34	13.18	1.88	0.00	-15.06
6	308.00	24.3 QP	46.00	-21.70	1.60H	276	9.00	13.38	1.92	0.00	-15.30
7	350.00	38.6 QP	46.00	-7.40	1.28H	84	22.27	14.21	2.12	0.00	-16.33
8	352.00	29.8 QP	46.00	-16.20	1.58H	288	13.37	14.31	2.12	0.00	-16.43
9	396.00	28.0 QP	46.00	-18.00	1.63H	227	9.88	15.96	2.17	0.00	-18.12
10	400.00	29.1 QP	46.00	-16.90	1.34H	192	10.82	16.11	2.17	0.00	-18.28
11	450.00	27.4 QP	46.00	-18.60	1.30H	257	8.65	16.37	2.34	0.00	-18.72
12	500.00	34.1 QP	46.00	-11.90	1.43H	324	14.35	17.26	2.49	0.00	-19.75
13	550.00	33.9 QP	46.00	-12.10	1.50H	298	13.25	17.93	2.72	0.00	-20.65
14	600.00	29.5 QP	46.00	-16.50	1.40H	226	8.04	18.61	2.85	0.00	-21.47
15	650.00	34.6 QP	46.00	-11.40	1.28H	125	12.34	19.23	3.03	0.00	-22.26
16	700.00	33.7 QP	46.00	-12.30	1.17H	48	11.15	19.31	3.24	0.00	-22.56
17	750.00	34.3 QP	46.00	-11.70	1.13H	53	10.78	20.18	3.34	0.00	-23.53
18	800.00	35.8 QP	46.00	-10.20	1.26H	135	11.74	20.69	3.38	0.00	-24.06
19	850.00	37.1 QP	46.00	-8.90	1.22H	208	13.01	20.48	3.61	0.00	-24.10
20	900.00	27.5 QP	46.00	-18.50	1.30H	266	3.03	20.80	3.66	0.00	-24.48

- NOTE:** 1 Emission level = Raw Value - Correction Factor
 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
 (External Preamp. Gain = 0, when the test receiver is used for the test.)
 3 The other emission levels were very low against the limit.
 4 Margin value = Emission level - Limit value

EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	34.8 QP	43.50	-8.70	1.34V	348	22.10	11.47	1.23	0.00	-12.70
2	150.00	25.4 QP	43.50	-18.10	1.12V	272	13.79	10.30	1.31	0.00	-11.61
3	175.00	26.8 QP	43.50	-16.70	1.06V	210	16.35	9.08	1.37	0.00	-10.45
4	176.00	25.6 QP	43.50	-17.90	1.40V	350	15.15	9.08	1.37	0.00	-10.45
5	200.00	28.4 QP	43.50	-15.10	1.16V	109	18.02	8.98	1.40	0.00	-10.38
6	250.00	27.7 QP	46.00	-18.30	1.36V	22	13.95	12.02	1.73	0.00	-13.75
7	308.00	27.3 QP	46.00	-18.70	1.28V	275	12.00	13.38	1.92	0.00	-15.30
8	325.00	26.5 QP	46.00	-19.50	1.74V	96	10.77	13.72	2.00	0.00	-15.73
9	350.00	33.4 QP	46.00	-12.60	1.60V	168	17.07	14.21	2.12	0.00	-16.33
10	352.00	24.8 QP	46.00	-21.20	1.33V	176	8.37	14.31	2.12	0.00	-16.43
11	375.00	25.3 QP	46.00	-20.70	1.72V	207	8.03	15.13	2.14	0.00	-17.27
12	396.00	24.7 QP	46.00	-21.30	1.59V	112	6.58	15.96	2.17	0.00	-18.12
13	400.00	27.1 QP	46.00	-18.90	1.62V	152	8.82	16.11	2.17	0.00	-18.28
14	450.00	29.1 QP	46.00	-16.90	1.38V	94	10.39	16.37	2.34	0.00	-18.71
15	500.00	32.3 QP	46.00	-13.70	1.30V	1	12.55	17.26	2.49	0.00	-19.75
16	550.00	34.8 QP	46.00	-11.20	1.37V	73	14.15	17.93	2.72	0.00	-20.65
17	572.00	25.3 QP	46.00	-20.70	1.52V	55	4.26	18.25	2.79	0.00	-21.05
18	650.00	31.9 QP	46.00	-14.10	1.31V	138	9.64	19.23	3.03	0.00	-22.26
19	700.00	34.5 QP	46.00	-11.50	1.10V	198	11.95	19.31	3.24	0.00	-22.55
20	750.00	38.2 QP	46.00	-7.80	1.05V	263	14.68	20.18	3.34	0.00	-23.52
21	800.00	30.2 QP	46.00	-15.80	1.17V	323	6.14	20.69	3.38	0.00	-24.07
22	850.00	29.5 QP	46.00	-16.50	1.19V	263	5.41	20.48	3.61	0.00	-24.09
23	900.00	31.6 QP	46.00	-14.40	1.25V	203	7.13	20.80	3.66	0.00	-24.48

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.9 TEST RESULTS

EUT	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	50.1 AV	54.00	-3.90	1.21H	284	54.90	25.20	4.86	34.90	4.84
2	2038.00	48.7 PK	74.00	-25.30	1.21H	284	53.50	25.20	4.86	34.90	4.84
3	*2412.00	86.9 AV	-	-	1.00H	208	54.66	27.11	5.10	0.00	-32.21
4	*2412.00	93.6 PK	-	-	1.00H	208	61.40	27.11	5.10	0.00	-32.21

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	48.9 AV	54.00	-5.10	1.07V	186	53.70	25.20	4.86	34.90	4.84
2	2038.00	50.1 PK	74.00	-23.90	1.07V	186	54.90	25.20	4.86	34.90	4.84
3	*2412.00	92.2 AV	-	-	1.67V	203	60.00	27.11	5.10	0.00	-32.21
4	*2412.00	97.8 PK	-	-	1.67V	203	65.60	27.11	5.10	0.00	-32.21

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 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	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	49.2 PK	74.00	-24.80	1.17H	140	53.70	25.41	4.96	34.90	4.53
2	2063.00	47.5 AV	54.00	-6.50	1.17H	140	52.00	25.41	4.96	34.90	4.53
3	*2437.00	86.2 AV	-	-	1.07H	184	53.80	27.33	5.08	0.00	-32.40
4	*2437.00	92.5 PK	-	-	1.07H	184	60.10	27.33	5.08	0.00	-32.40

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	49.6 AV	54.00	-4.40	1.51V	190	54.10	25.41	4.96	34.90	4.53
2	2063.00	51.4 PK	74.00	-22.60	1.51V	190	55.90	25.41	4.96	34.90	4.53
3	*2437.00	97.5 PK	-	-	1.51V	190	65.10	27.33	5.08	0.00	-32.40
4	*2437.00	91.6 AV	-	-	1.51V	190	59.20	27.33	5.08	0.00	-32.40

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 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	Smart Wireless Access Point 802.11b	MODEL	95-10
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	49.7 AV	54.00	-4.30	1.29H	228	54.00	25.62	5.02	34.90	4.26
2	2088.00	51.3 PK	74.00	-22.70	1.29H	228	55.60	25.62	5.02	34.90	4.26
3	*2462.00	94.3 AV	-	-	1.05H	199	61.90	27.33	5.08	0.00	-32.41
4	*2462.00	87.6 AV	-	-	1.05H	199	55.20	27.33	5.08	0.00	-32.41

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)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	50.7 AV	54.00	-3.30	1.03V	212	55.00	25.62	5.02	34.90	4.26
2	2088.00	52.5 PK	74.00	-21.50	1.03V	212	56.80	25.62	5.02	34.90	4.26
3	*2462.00	93.7 AV	-	-	1.66V	197	61.30	27.33	5.08	0.00	-32.41
4	*2462.00	99.3 PK	-	-	1.66V	197	66.90	27.33	5.08	0.00	-32.41

- NOTE:**
1. Emission level= Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 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