



FCC TEST REPORT

REPORT NO.: RF910605R04

MODEL NO.: MB-23

WMP-A12

RECEIVED: June 17, 2002

TESTED: July 5 ~ July 22, 2002

APPLICANT: D-LINK CORPORATION

ADDRESS: No. 8, Li Hsing Rd VII, Science-Based
Industrial Park, Hsinchu, Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

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0528
ILAC MRA



Lab Code: 200102-0



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1 CERTIFICATION

PRODUCT : IEEE 802.11a Wide band Mini PCI
BRAND NAME : D-Link
MODEL NO. : MB-23
WMP-A12
APPLICANT : D-Link Corporation
STANDARDS : 47 CFR Part 15, Subpart E (Section 15.407),
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from July 5, 2002 to July 22, 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 : Emily Lu , DATE : July 25, 2002
Emily Lu

APPROVED BY : Ellis Wu for , DATE : July 25, 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 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 -15.19dBuV at 0.798MHz
15.407(b)(5)	Electric Field Strength Spurious Emissions, 30 MHz – 40000 MHz (Transmitting)	PASS	Meet the requirement of limit Minimum passing margin is -2. 0dBuV at 10520.0MHz
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(b1/2/3)	Effective Isotropic Radiated Power Spurious Emissions, 1 GHz – 40 GHz	PASS	Meet the requirement of limit Minimum passing margin is -2.32dBm at 5725.00MHz
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	IEEE 802.11a Wide band Mini PCI
MODEL NO.	MB-23 WMP-A12
POWER SUPPLY	3.3VDC from host equipment
MODULATION TYPE	OFDM
TRANSFER RATE	6 to 54Mbps (Turbo mode: up to 108Mbps *see note 2)
FREQUENCY RANGE	5.15~5.85GHz
BAND WIDTH OF EACH CHANNEL	20MHz (Normal mode) 40MHz (Turbo mode)
NUMBER OF CHANNEL	12
OUTPUT POWER	18.69dBm
ANTENNA TYPE	Dipole Antenna, PIFA Antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. Model MB-23 and WMP-A12 are identical except for their model number due to marketing requirement.
2. This EUT is capable of providing data rates of up to 108Mbps in Turbo Mode depending upon reception quality.
3. Three types of antenna were provided to this EUT:

	ANTENNA TYPE	MODEL	REMARK
1	Dipole	KWF-613C-120	Gain=3.5dBi (Black)
2	Dipole	KWF-144-120	Gain=2.0dBi (Gray)
3	PIFA	KN-813A-120-1	Gain=1.0dBi

4. 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	5745 MHz
4	5240 MHz	10	5765 MHz
5	5260 MHz	11	5785 MHz
6	5280 MHz	12	5805 MHz

Five channels are provided to this EUT for Turbo Mode.

Channel	Frequency	Channel	Frequency
1	5210 MHz	4	5760 MHz
2	5250 MHz	5	5800 MHz
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, 12 were chosen for final test of Normal Mode.
5. Test result (A) is for antenna 1, test result (B) is for antenna 2 and test result (C) is for antenna 3 which mentioned on page 3, note 3.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an IEEE 802.11a Wide band Mini PCI. 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)

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	PS/2 KEYBOARD	BTC	5121W	A00801156	E5XKB5121WTH 0110
2	COLOR MONITOR	ADI	CM100	026058T10200611 A	FCC DoC APPROVED
3	PS/2 MOUSE	LOGITECH	M-S43	LZE00703207	DZL211106

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
2	1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core
3	1.8 m foil shielded wire, terminated with PS/2 connector via drain wire, 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 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. 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

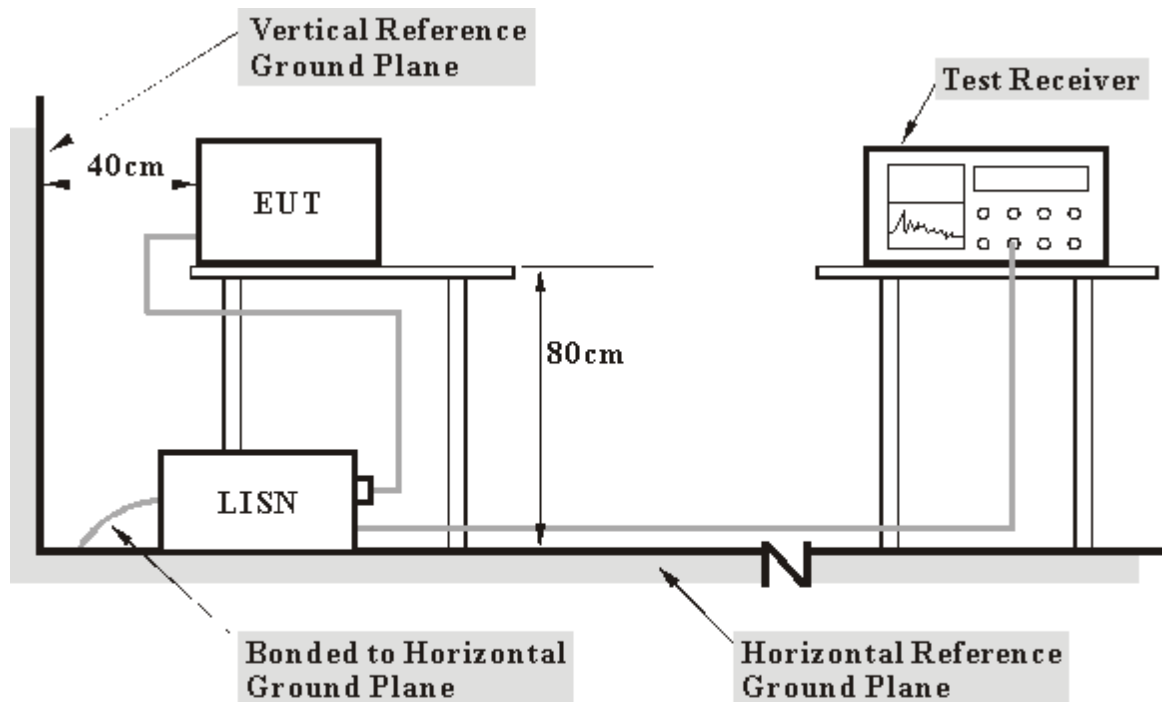
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	845552/004	June 20, 2003
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 23, 2003
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 25, 2002
* ROHDE & SCHWARZ 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 23, 2003
Software	Cond-V2L	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	July 23, 2003
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

- 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - 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. Connected the EUT to a computer system placed on a testing table.
- b. The computer system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The computer system sent "H" messages to its screen.



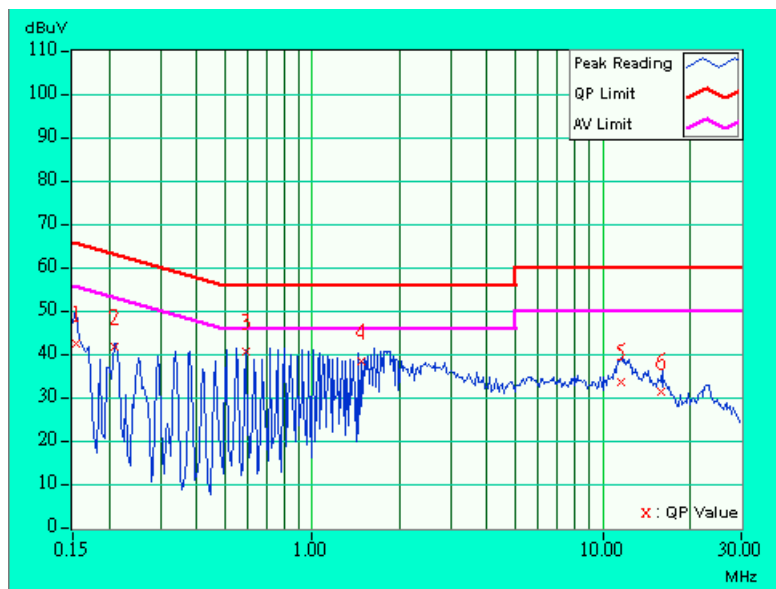
4.1.6 TEST RESULTS (A) (TRANSMITTING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%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]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	41.72	-	41.82	-	65.79	55.79	-23.97	-
2	0.209	0.10	41.04	-	41.14	-	63.26	53.26	-22.12	-
3	0.591	0.13	39.98	-	40.11	-	56.00	46.00	-15.89	-
4	1.473	0.20	37.60	-	37.80	-	56.00	46.00	-18.20	-
5	11.641	0.63	32.92	-	33.55	-	60.00	50.00	-26.45	-
6	15.801	0.75	30.58	-	31.33	-	60.00	50.00	-28.67	-

NOTE:

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



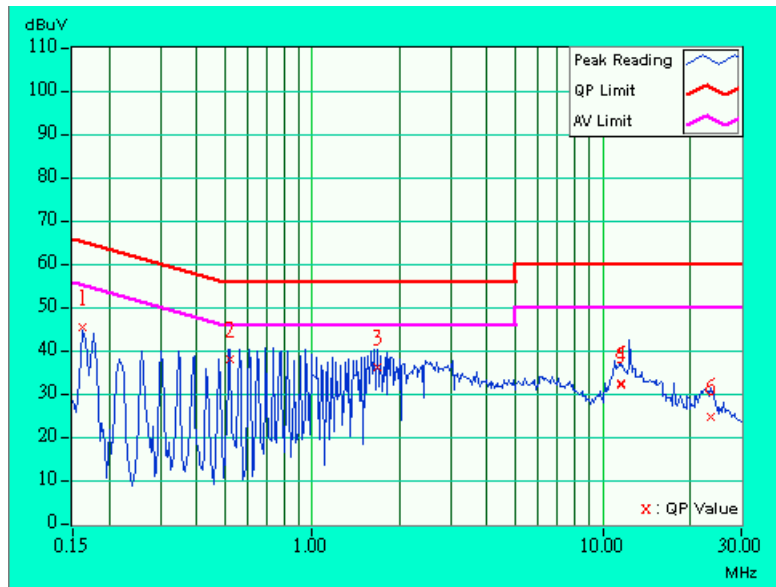


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	44.99	-	45.09	-	65.38	55.38	-20.29	-
2	0.521	0.12	37.25	-	37.37	-	56.00	46.00	-18.63	-
3	1.688	0.20	35.68	-	35.88	-	56.00	46.00	-20.12	-
4	11.543	0.43	31.94	-	32.37	-	60.00	50.00	-27.63	-
5	11.543	0.43	31.66	-	32.09	-	60.00	50.00	-27.91	-
6	23.637	0.73	24.02	-	24.75	-	60.00	50.00	-35.25	-

NOTE:

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



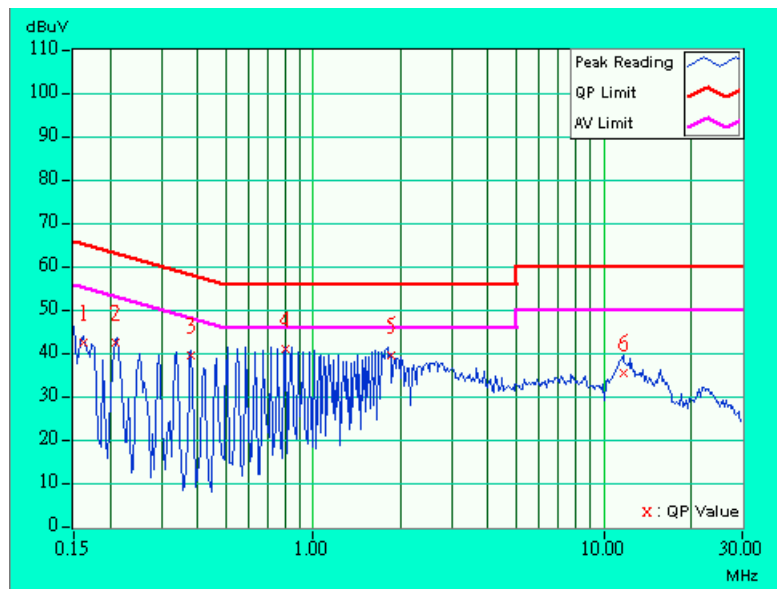


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	42.07	-	42.17	-	65.38	55.38	-23.21	-
2	0.209	0.10	41.84	-	41.94	-	63.26	53.26	-21.32	-
3	0.380	0.10	39.10	-	39.20	-	58.27	48.27	-19.07	-
4	0.798	0.17	40.64	-	40.81	-	56.00	46.00	-15.19	-
5	1.852	0.20	38.84	-	39.04	-	56.00	46.00	-16.96	-
6	11.680	0.63	34.87	-	35.50	-	60.00	50.00	-24.50	-

NOTE:

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



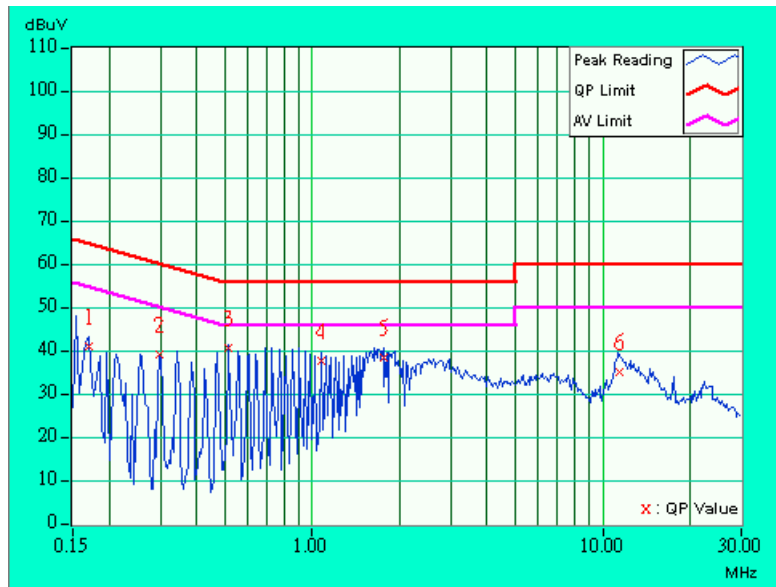


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	40.82	-	40.92	-	64.98	54.98	-24.06	-
2	0.298	0.10	38.66	-	38.76	-	60.29	50.29	-21.53	-
3	0.513	0.12	40.49	-	40.61	-	56.00	46.00	-15.39	-
4	1.070	0.20	37.42	-	37.62	-	56.00	46.00	-18.38	-
5	1.758	0.20	38.03	-	38.23	-	56.00	46.00	-17.77	-
6	11.461	0.43	34.82	-	35.25	-	60.00	50.00	-24.75	-

NOTE:

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





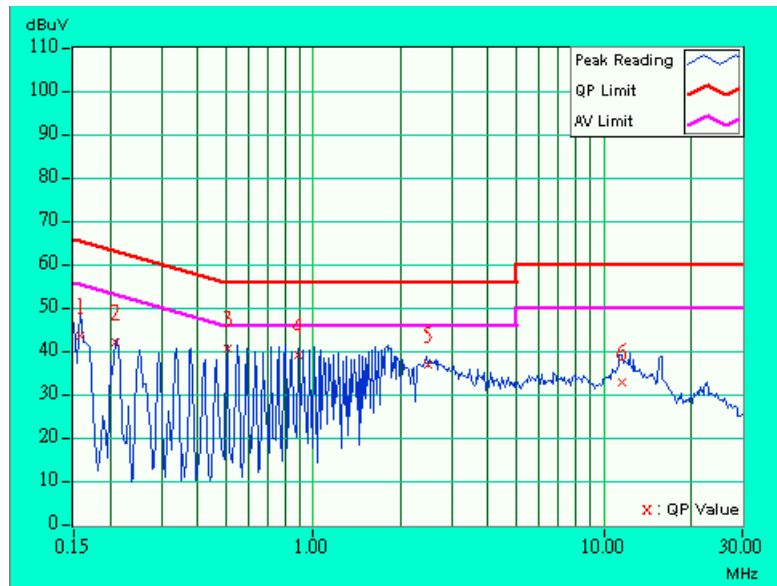
4.1.7 TEST RESULTS (B) (TRANSMITTING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%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]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	42.97	-	43.07	-	65.58	55.58	-22.51	-
2	0.209	0.10	41.41	-	41.51	-	63.26	53.26	-21.75	-
3	0.505	0.12	40.28	-	40.40	-	56.00	46.00	-15.60	-
4	0.884	0.18	38.53	-	38.71	-	56.00	46.00	-17.29	-
5	2.484	0.25	36.42	-	36.67	-	56.00	46.00	-19.33	-
6	11.547	0.63	32.46	-	33.09	-	60.00	50.00	-26.91	-

NOTE:

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



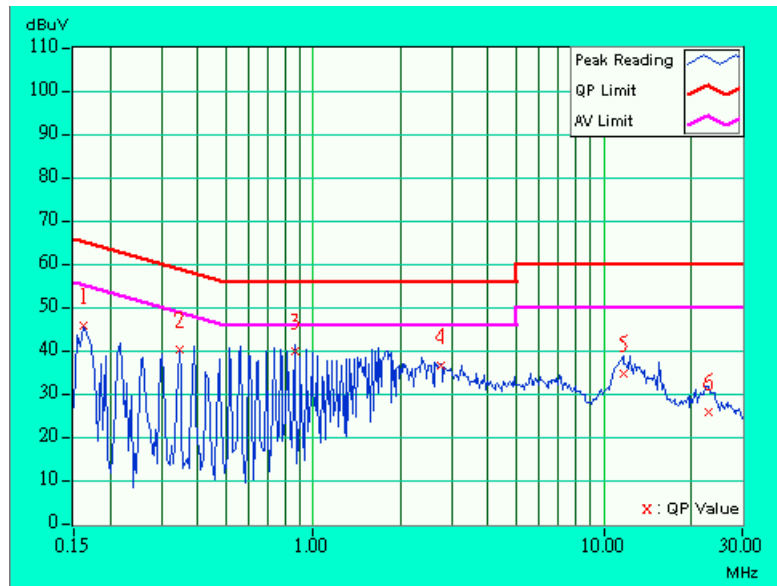


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	45.27	-	45.37	-	65.38	55.38	-20.01	-
2	0.345	0.10	39.61	-	39.71	-	59.07	49.07	-19.36	-
3	0.861	0.18	39.30	-	39.48	-	56.00	46.00	-16.52	-
4	2.754	0.24	36.01	-	36.25	-	56.00	46.00	-19.75	-
5	11.676	0.43	34.13	-	34.56	-	60.00	50.00	-25.44	-
6	22.977	0.74	25.04	-	25.78	-	60.00	50.00	-34.22	-

NOTE:

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



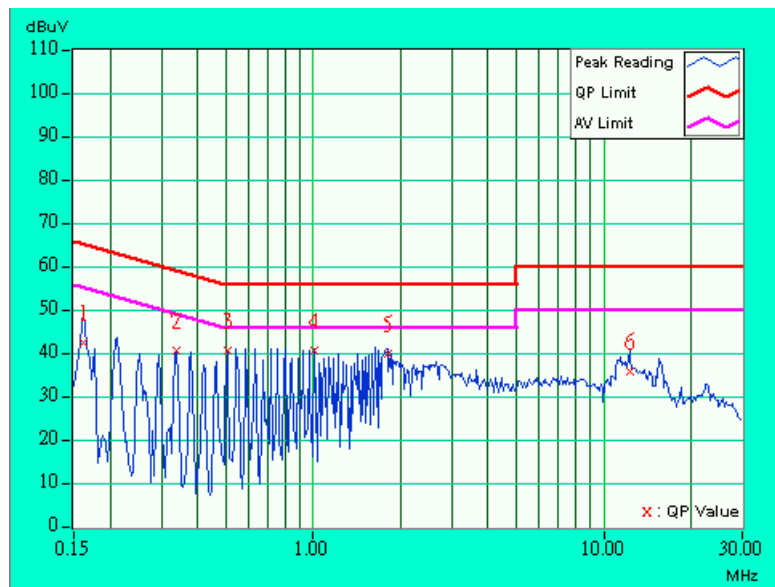


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	41.99	-	42.09	-	65.38	55.38	-23.29	-
2	0.338	0.10	40.07	-	40.17	-	59.26	49.26	-19.09	-
3	0.505	0.12	40.02	-	40.14	-	56.00	46.00	-15.86	-
4	1.008	0.20	40.08	-	40.28	-	56.00	46.00	-15.72	-
5	1.809	0.20	39.42	-	39.62	-	56.00	46.00	-16.38	-
6	12.332	0.65	35.18	-	35.83	-	60.00	50.00	-24.17	-

NOTE:

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



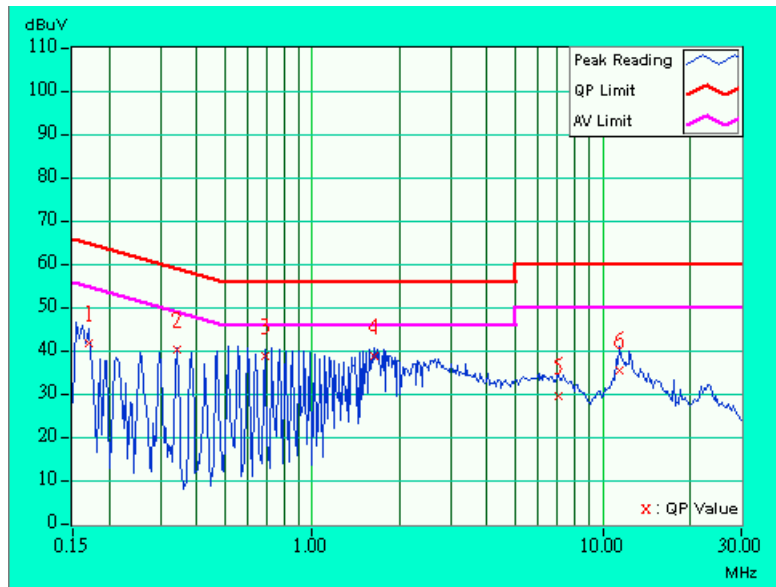


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	41.29	-	41.39	-	64.98	54.98	-23.59	-
2	0.341	0.10	39.85	-	39.95	-	59.17	49.17	-19.22	-
3	0.685	0.15	38.51	-	38.66	-	56.00	46.00	-17.34	-
4	1.625	0.20	38.62	-	38.82	-	56.00	46.00	-17.18	-
5	7.008	0.35	29.16	-	29.51	-	60.00	50.00	-30.49	-
6	11.469	0.43	35.02	-	35.45	-	60.00	50.00	-24.55	-

NOTE:

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





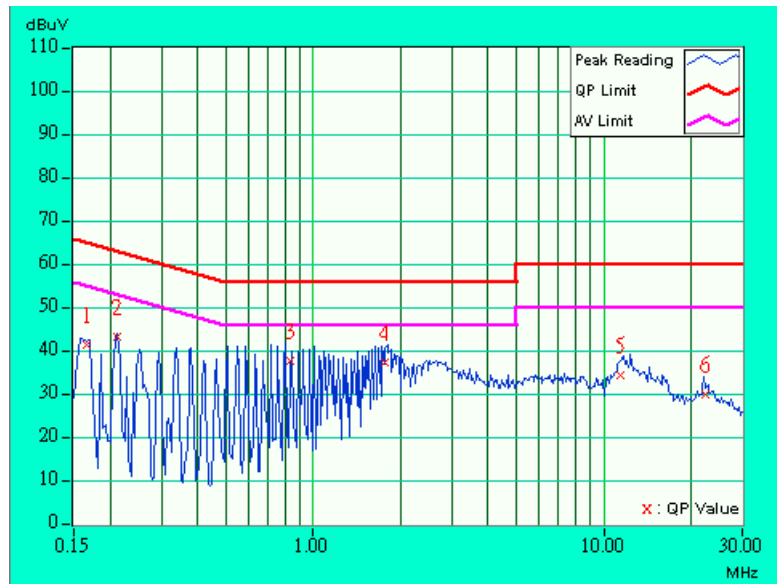
4.1.8 TEST RESULTS (C) (TRANSMITTING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%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]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	40.22	-	40.32	-	65.18	55.18	-24.86	-
2	0.213	0.10	42.36	-	42.46	-	63.11	53.11	-20.65	-
3	0.838	0.17	36.62	-	36.79	-	56.00	46.00	-19.21	-
4	1.762	0.20	36.41	-	36.61	-	56.00	46.00	-19.39	-
5	11.395	0.63	33.29	-	33.92	-	60.00	50.00	-26.08	-
6	22.516	1.10	28.79	-	29.89	-	60.00	50.00	-30.11	-

NOTE:

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



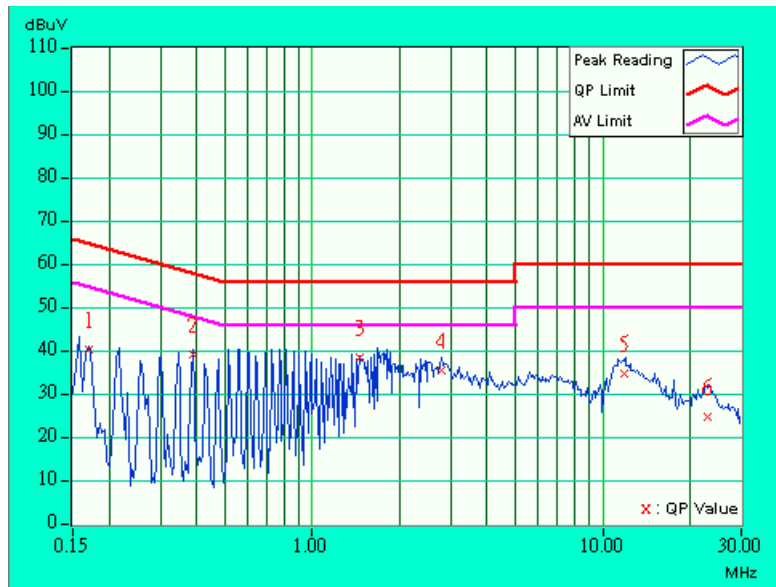


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	39.69	-	39.79	-	64.98	54.98	-25.19	-
2	0.388	0.10	38.67	-	38.77	-	58.10	48.10	-19.33	-
3	1.461	0.20	37.65	-	37.85	-	56.00	46.00	-18.15	-
4	2.793	0.24	34.76	-	35.00	-	56.00	46.00	-21.00	-
5	11.809	0.44	33.90	-	34.34	-	60.00	50.00	-25.66	-
6	23.016	0.74	24.23	-	24.97	-	60.00	50.00	-35.03	-

NOTE:

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



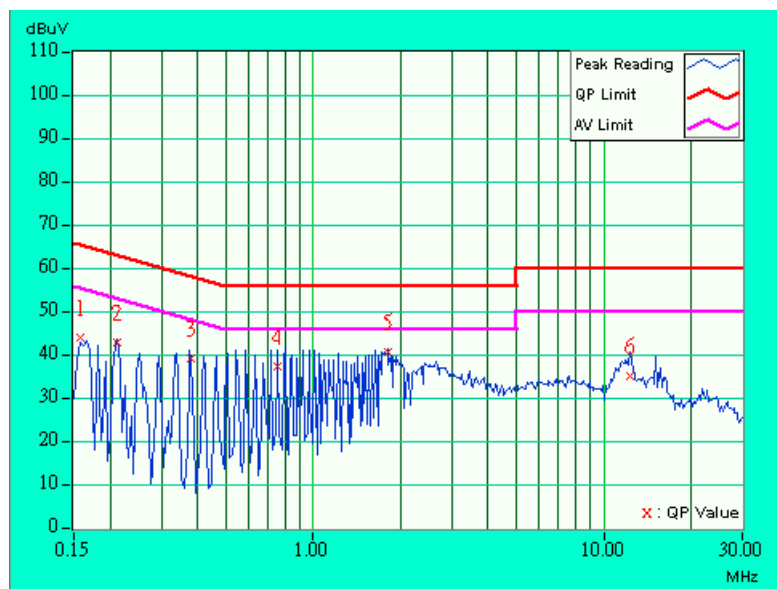


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	43.35	-	43.45	-	65.58	55.58	-22.13	-
2	0.213	0.10	42.32	-	42.42	-	63.11	53.11	-20.69	-
3	0.380	0.10	38.76	-	38.86	-	58.27	48.27	-19.41	-
4	0.752	0.16	36.90	-	37.06	-	56.00	46.00	-18.94	-
5	1.805	0.20	39.95	-	40.15	-	56.00	46.00	-15.85	-
6	12.379	0.65	34.57	-	35.22	-	60.00	50.00	-24.78	-

NOTE:

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



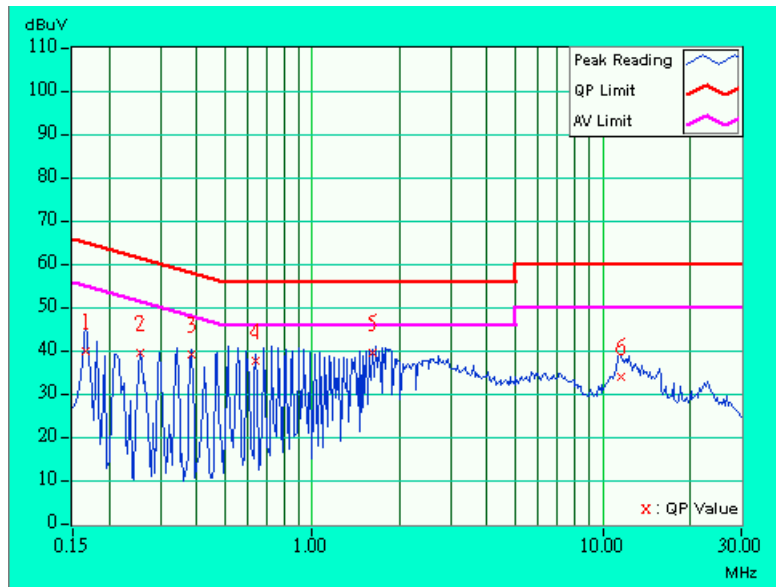


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.
1	0.166	0.10	39.71	-	39.81	-	65.18	55.18	-25.37	-
2	0.255	0.10	39.24	-	39.34	-	61.58	51.58	-22.24	-
3	0.384	0.10	38.90	-	39.00	-	58.18	48.18	-19.18	-
4	0.638	0.14	37.34	-	37.48	-	56.00	46.00	-18.52	-
5	1.621	0.20	39.12	-	39.32	-	56.00	46.00	-16.68	-
6	11.594	0.43	33.81	-	34.24	-	60.00	50.00	-25.76	-

NOTE:

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





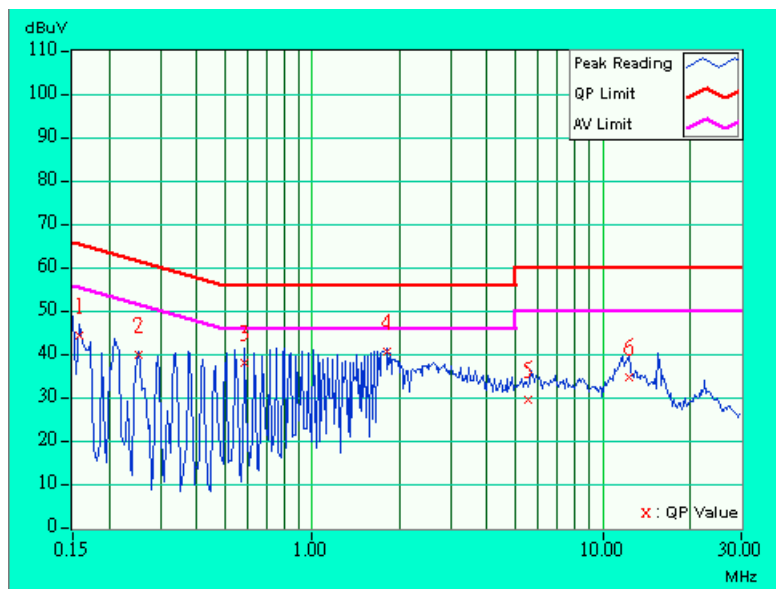
4.1.9 TEST RESULTS (A) (RECEIVING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%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]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	43.64	-	43.74	-	65.58	55.58	-21.84	-
2	0.252	0.10	39.35	-	39.45	-	61.71	51.71	-22.26	-
3	0.584	0.13	37.63	-	37.76	-	56.00	46.00	-18.24	-
4	1.805	0.20	40.00	-	40.20	-	56.00	46.00	-15.80	-
5	5.508	0.45	29.14	-	29.59	-	60.00	50.00	-30.41	-
6	12.285	0.65	34.08	-	34.73	-	60.00	50.00	-25.27	-

NOTE:

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



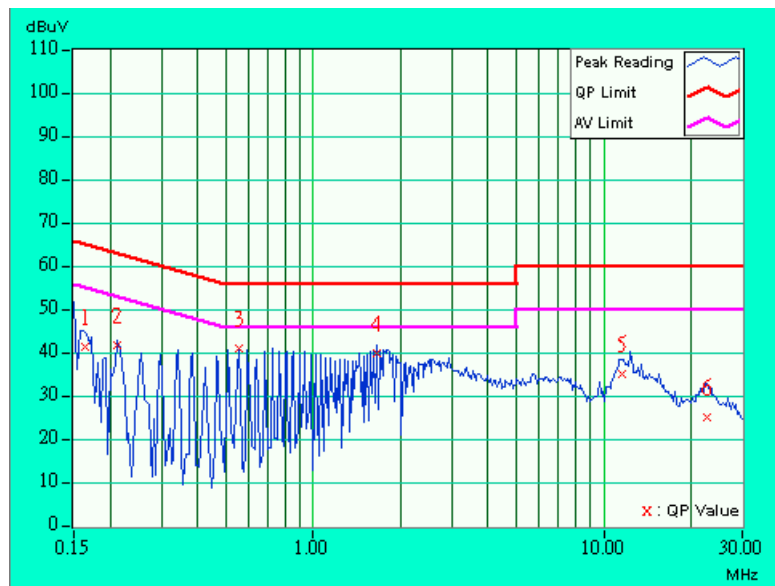


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.165	0.10	40.67	-	40.77	-	65.22	55.22	-24.45	-
2	0.213	0.10	41.24	-	41.34	-	63.11	53.11	-21.77	-
3	0.552	0.13	40.32	-	40.45	-	56.00	46.00	-15.55	-
4	1.660	0.20	39.44	-	39.64	-	56.00	46.00	-16.36	-
5	11.578	0.43	34.31	-	34.74	-	60.00	50.00	-25.26	-
6	22.828	0.74	24.33	-	25.07	-	60.00	50.00	-34.93	-

NOTE:

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



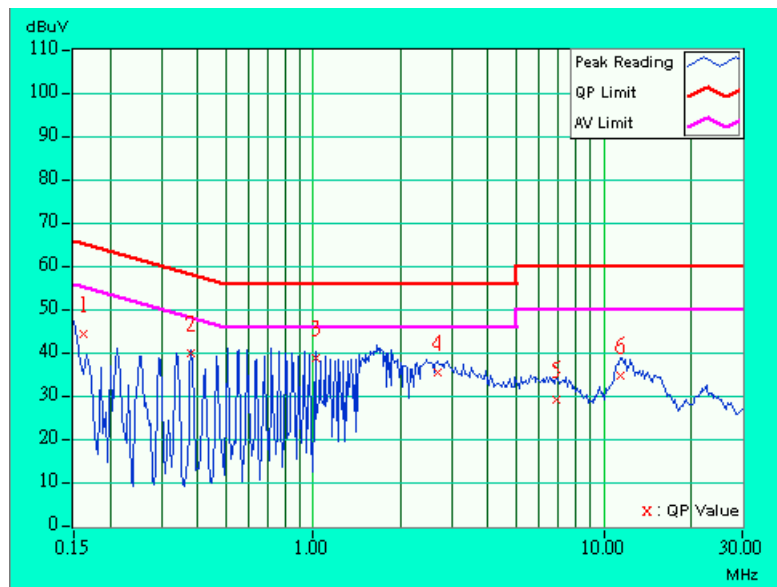


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	43.74	-	43.84	-	65.34	55.34	-21.50	-
2	0.380	0.10	39.50	-	39.60	-	58.27	48.27	-18.67	-
3	1.016	0.20	38.41	-	38.61	-	56.00	46.00	-17.39	-
4	2.668	0.27	34.93	-	35.20	-	56.00	46.00	-20.80	-
5	6.906	0.50	28.46	-	28.96	-	60.00	50.00	-31.04	-
6	11.449	0.63	34.06	-	34.69	-	60.00	50.00	-25.31	-

NOTE:

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



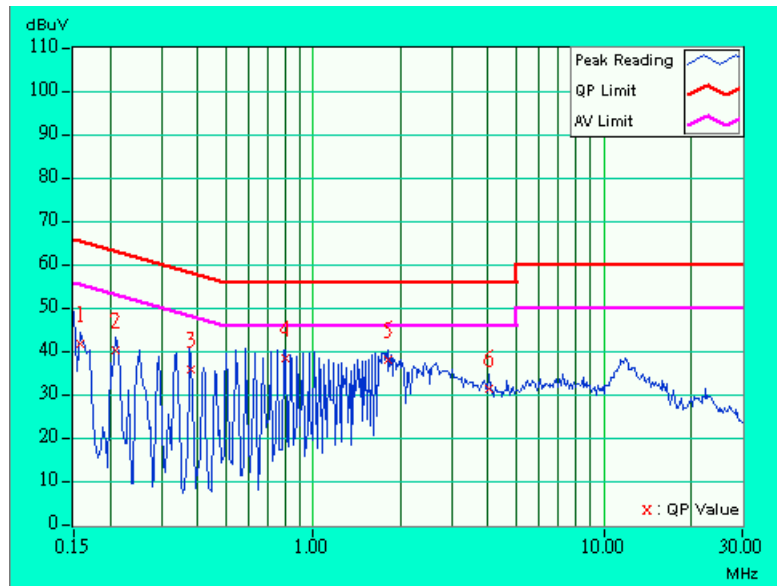


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	41.64	-	41.74	-	65.58	55.58	-23.84	-
2	0.209	0.10	40.00	-	40.10	-	63.26	53.26	-23.16	-
3	0.380	0.10	35.79	-	35.89	-	58.27	48.27	-22.38	-
4	0.798	0.17	38.09	-	38.26	-	56.00	46.00	-17.74	-
5	1.805	0.20	37.75	-	37.95	-	56.00	46.00	-18.05	-
6	4.027	0.30	31.27	-	31.57	-	56.00	46.00	-24.43	-

NOTE:

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





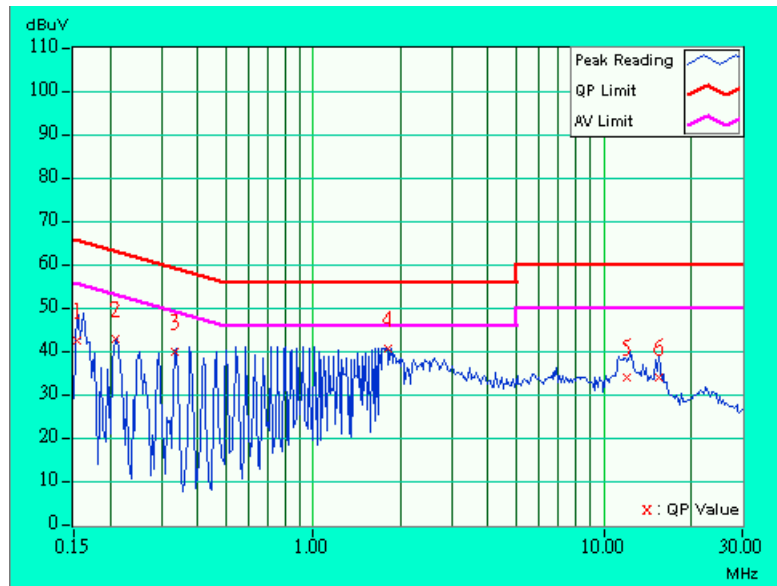
4.1.10 TEST RESULTS (B) (RECEIVING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%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]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	41.69	-	41.79	-	65.79	55.79	-24.00	-
2	0.209	0.10	42.20	-	42.30	-	63.26	53.26	-20.96	-
3	0.334	0.10	39.15	-	39.25	-	59.36	49.36	-20.11	-
4	1.805	0.20	39.93	-	40.13	-	56.00	46.00	-15.87	-
5	12.023	0.64	33.24	-	33.88	-	60.00	50.00	-26.12	-
6	15.500	0.73	33.45	-	34.18	-	60.00	50.00	-25.82	-

NOTE:

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



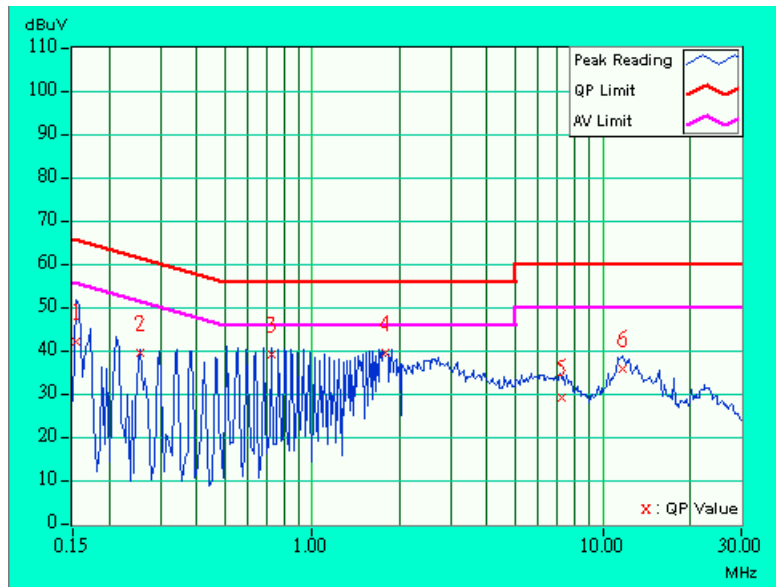


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	41.76	-	41.86	-	65.79	55.79	-23.93	-
2	0.255	0.10	39.17	-	39.27	-	61.58	51.58	-22.31	-
3	0.724	0.15	38.78	-	38.93	-	56.00	46.00	-17.07	-
4	1.781	0.20	39.24	-	39.44	-	56.00	46.00	-16.56	-
5	7.184	0.35	28.97	-	29.32	-	60.00	50.00	-30.68	-
6	11.676	0.43	35.60	-	36.03	-	60.00	50.00	-23.97	-

NOTE:

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



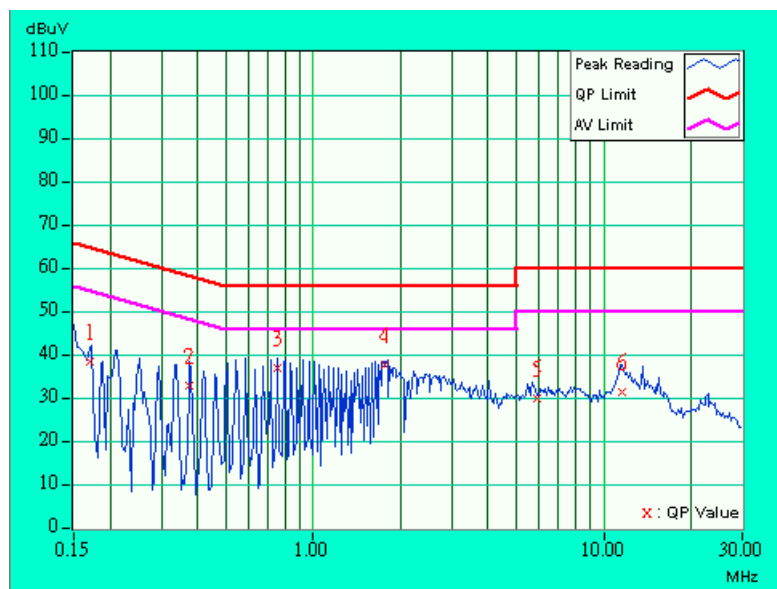


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	37.91	-	38.01	-	64.98	54.98	-26.97	-
2	0.373	0.10	32.51	-	32.61	-	58.44	48.44	-25.83	-
3	0.752	0.16	36.28	-	36.44	-	56.00	46.00	-19.56	-
4	1.762	0.20	37.32	-	37.52	-	56.00	46.00	-18.48	-
5	5.914	0.46	29.21	-	29.67	-	60.00	50.00	-30.33	-
6	11.613	0.63	30.97	-	31.60	-	60.00	50.00	-28.40	-

NOTE:

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



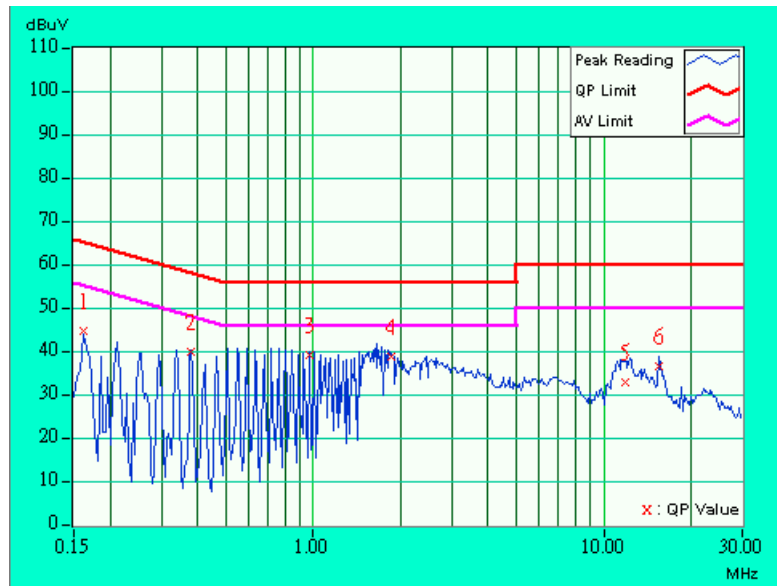


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	44.46	-	44.56	-	65.38	55.38	-20.82	-
2	0.380	0.10	39.59	-	39.69	-	58.27	48.27	-18.58	-
3	0.970	0.20	38.90	-	39.10	-	56.00	46.00	-16.90	-
4	1.855	0.20	38.30	-	38.50	-	56.00	46.00	-17.50	-
5	11.840	0.44	32.46	-	32.90	-	60.00	50.00	-27.10	-
6	15.551	0.53	36.04	-	36.57	-	60.00	50.00	-23.43	-

NOTE:

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





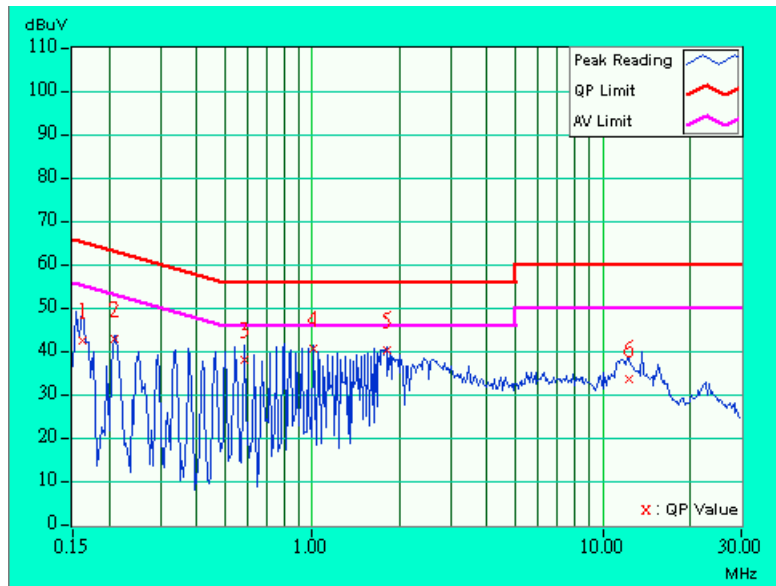
4.1.11 TEST RESULTS (C) (RECEIVING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%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]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	41.97	-	42.07	-	65.38	55.38	-23.31	-
2	0.209	0.10	42.30	-	42.40	-	63.26	53.26	-20.86	-
3	0.584	0.13	37.32	-	37.45	-	56.00	46.00	-18.55	-
4	1.008	0.20	40.04	-	40.24	-	56.00	46.00	-15.76	-
5	1.805	0.20	39.69	-	39.89	-	56.00	46.00	-16.11	-
6	12.328	0.65	33.02	-	33.67	-	60.00	50.00	-26.33	-

NOTE:

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



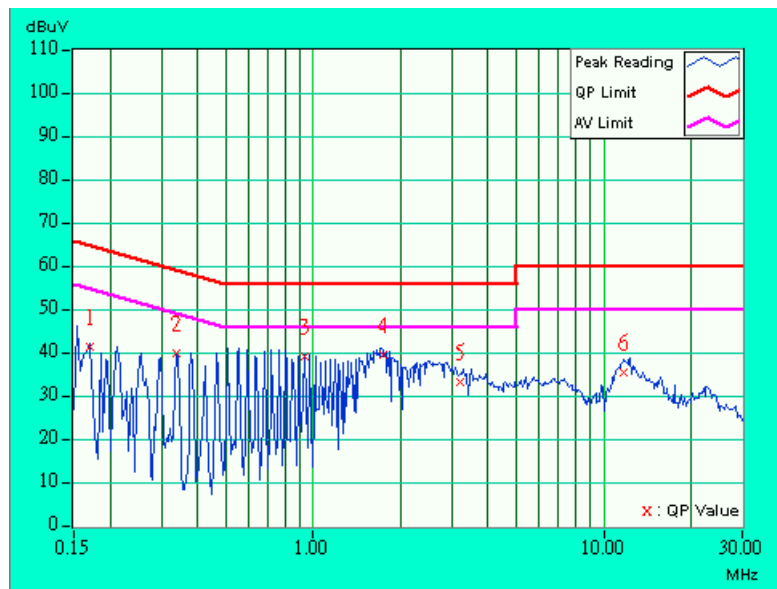


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	41.17	-	41.27	-	64.98	54.98	-23.71	-
2	0.338	0.10	39.64	-	39.74	-	59.26	49.26	-19.52	-
3	0.931	0.19	38.90	-	39.09	-	56.00	46.00	-16.91	-
4	1.738	0.20	39.36	-	39.56	-	56.00	46.00	-16.44	-
5	3.223	0.26	32.82	-	33.08	-	56.00	46.00	-22.92	-
6	11.672	0.43	34.94	-	35.37	-	60.00	50.00	-24.63	-

NOTE:

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



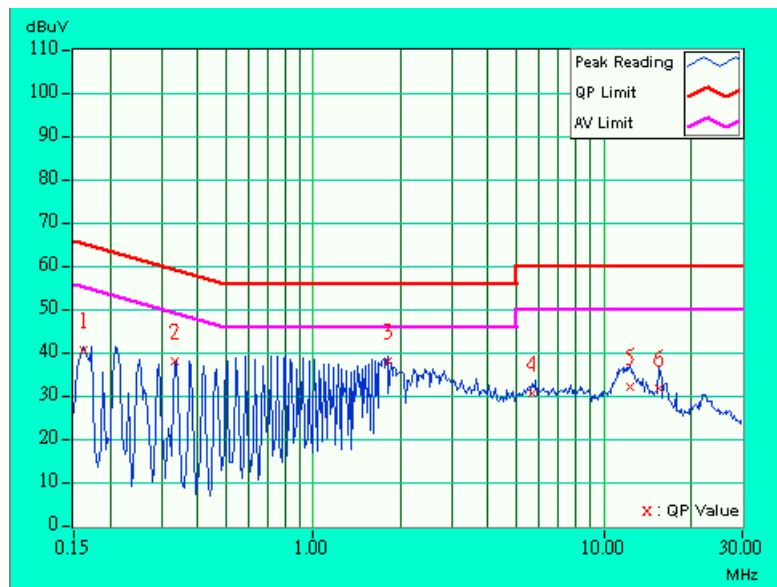


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	40.05	-	40.15	-	65.38	55.38	-25.23	-
2	0.334	0.10	37.37	-	37.47	-	59.36	49.36	-21.89	-
3	1.805	0.20	37.56	-	37.76	-	56.00	46.00	-18.24	-
4	5.664	0.46	29.93	-	30.39	-	60.00	50.00	-29.61	-
5	12.289	0.65	31.47	-	32.12	-	60.00	50.00	-27.88	-
6	15.551	0.73	30.94	-	31.67	-	60.00	50.00	-28.33	-

NOTE:

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



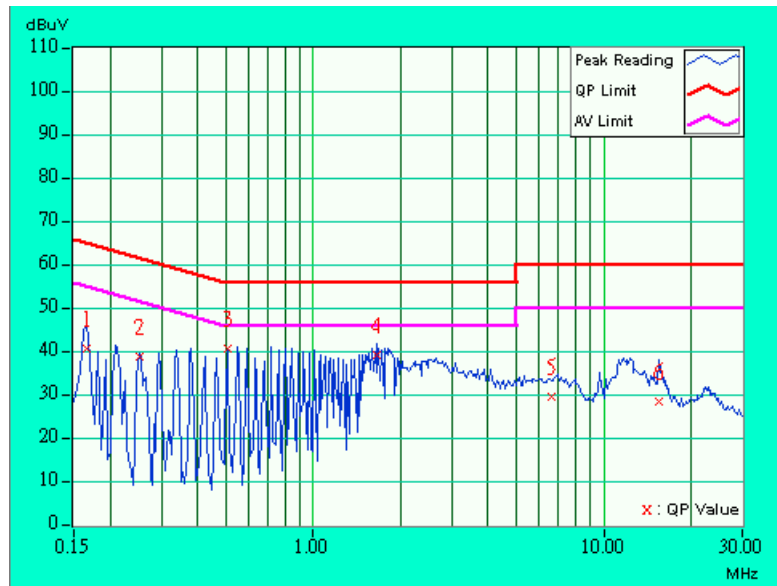


EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.
1	0.166	0.10	40.18	-	40.28	-	65.18	55.18	-24.90	-
2	0.252	0.10	38.42	-	38.52	-	61.71	51.71	-23.19	-
3	0.505	0.12	40.23	-	40.35	-	56.00	46.00	-15.65	-
4	1.648	0.20	38.58	-	38.78	-	56.00	46.00	-17.22	-
5	6.625	0.34	29.27	-	29.61	-	60.00	50.00	-30.39	-
6	15.547	0.53	27.85	-	28.38	-	60.00	50.00	-31.62	-

NOTE:

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





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.



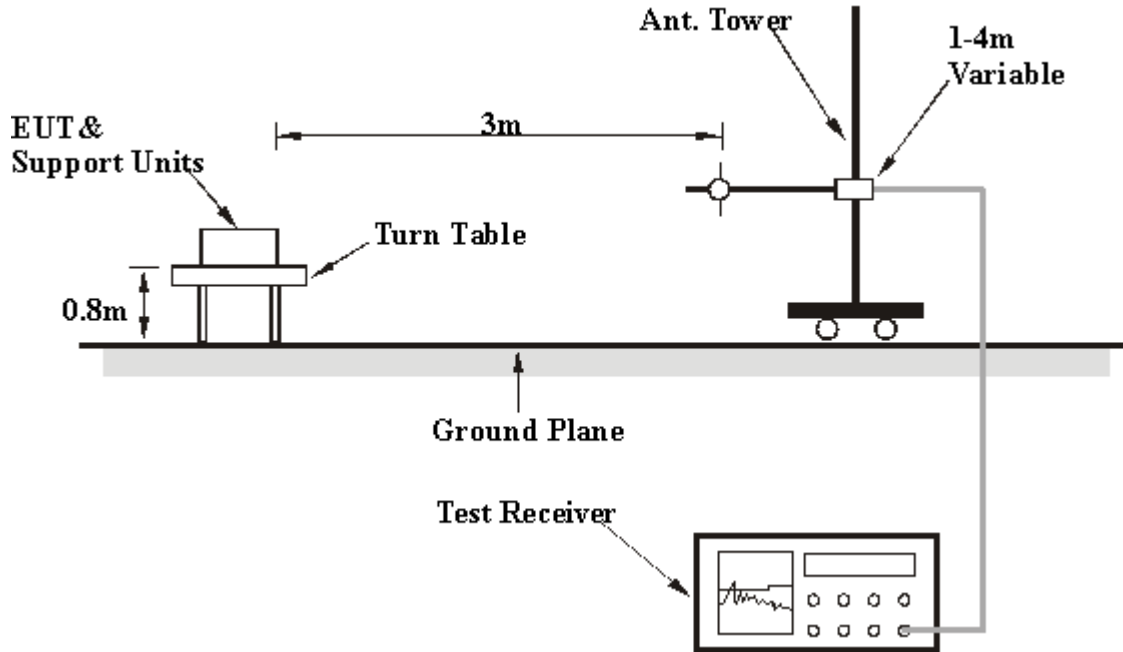
4.2.3 TEST PROCEDURES

- 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 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.

4.2.4 TEST SETUP



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

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5.

4.2.6 TEST RESULTS (A) (TRANSMITTING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	38.1 QP	43.50	-5.40	1.19H	2	27.28	9.44	1.38	0.00	-10.82
2	192.00	31.3 QP	43.50	-12.20	1.33H	99	20.96	8.95	1.39	0.00	-10.34
3	233.00	43.0 QP	46.00	-3.00	1.14H	239	30.40	10.98	1.62	0.00	-12.60
4	288.00	34.6 QP	46.00	-11.40	1.26H	48	19.88	12.88	1.83	0.00	-14.72
5	310.00	40.3 QP	46.00	-5.70	1.05H	187	25.00	13.38	1.92	0.00	-15.30
6	320.00	31.4 QP	46.00	-14.60	1.40H	65	15.80	13.62	1.98	0.00	-15.60
7	352.00	28.6 QP	46.00	-17.40	1.32H	155	12.17	14.31	2.12	0.00	-16.43
8	383.00	36.7 QP	46.00	-9.30	1.20H	351	19.05	15.50	2.15	0.00	-17.65
9	433.00	34.9 QP	46.00	-11.10	1.35H	105	16.34	16.28	2.28	0.00	-18.56
10	480.00	35.8 QP	46.00	-10.20	1.13H	252	16.45	16.92	2.43	0.00	-19.35
11	544.00	36.8 QP	46.00	-9.20	1.86H	20	16.24	17.86	2.70	0.00	-20.56
12	576.00	39.8 QP	46.00	-6.20	1.62H	119	18.73	18.28	2.79	0.00	-21.07
13	626.00	36.8 QP	46.00	-9.20	1.31H	303	14.92	18.94	2.95	0.00	-21.89
14	672.00	32.4 QP	46.00	-13.60	1.46H	105	10.01	19.27	3.13	0.00	-22.39
15	720.00	36.9 QP	46.00	-9.10	1.33H	125	13.94	19.68	3.28	0.00	-22.97
16	817.80	32.4 QP	46.00	-13.60	1.24H	60	8.33	20.61	3.46	0.00	-24.08

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	30.9 QP	43.50	-12.60	1.10V	278	20.08	9.44	1.38	0.00	-10.82
2	192.00	31.4 QP	43.50	-12.10	1.08V	145	21.04	8.95	1.39	0.00	-10.34
3	233.00	42.1 QP	46.00	-3.90	1.60V	351	29.50	10.98	1.62	0.00	-12.60
4	256.00	30.4 QP	46.00	-15.60	1.34V	101	16.12	12.56	1.72	0.00	-14.28
5	288.00	33.2 QP	46.00	-12.80	1.51V	20	18.48	12.88	1.83	0.00	-14.73
6	300.00	36.9 QP	46.00	-9.10	1.57V	140	21.84	13.18	1.88	0.00	-15.07
7	320.00	35.1 QP	46.00	-10.90	1.54V	231	19.50	13.62	1.98	0.00	-15.60
8	352.00	31.8 QP	46.00	-14.20	1.52V	85	15.37	14.31	2.12	0.00	-16.43
9	400.00	36.9 QP	46.00	-9.10	1.56V	214	18.62	16.11	2.17	0.00	-18.28
10	420.00	38.9 QP	46.00	-7.10	1.56V	49	20.45	16.21	2.24	0.00	-18.46
11	433.00	34.5 QP	46.00	-11.50	1.62V	29	15.94	16.28	2.28	0.00	-18.56
12	480.00	36.7 QP	46.00	-9.30	1.97V	248	17.35	16.92	2.43	0.00	-19.35
13	529.00	35.3 QP	46.00	-10.70	1.73V	326	15.01	17.66	2.63	0.00	-20.29
14	544.00	32.5 QP	46.00	-13.50	1.44V	135	11.94	17.86	2.70	0.00	-20.56
15	576.00	36.9 QP	46.00	-9.10	1.47V	283	15.83	18.28	2.79	0.00	-21.08
16	599.00	36.7 QP	46.00	-9.30	1.68V	202	15.24	18.61	2.85	0.00	-21.47
17	640.00	32.0 QP	46.00	-14.00	1.80V	57	9.88	19.12	3.00	0.00	-22.13
18	672.00	31.0 QP	46.00	-15.00	1.83V	67	8.60	19.27	3.13	0.00	-22.40
19	736.00	26.9 QP	46.00	-19.10	1.75V	215	3.64	19.93	3.31	0.00	-23.25
20	818.00	30.4 QP	46.00	-15.60	1.75V	177	6.33	20.61	3.46	0.00	-24.08
21	900.00	28.6 QP	46.00	-17.40	1.37V	41	4.13	20.80	3.66	0.00	-24.48

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	31.0 QP	43.50	-12.50	1.31H	49	20.18	9.44	1.38	0.00	-10.82
2	233.00	43.9 QP	46.00	-2.10	1.32H	329	31.30	10.98	1.62	0.00	-12.60
3	288.00	34.8 QP	46.00	-11.20	1.20H	335	20.08	12.88	1.83	0.00	-14.72
4	310.00	40.8 QP	46.00	-5.20	1.27H	243	25.50	13.38	1.92	0.00	-15.30
5	320.00	32.5 QP	46.00	-13.50	1.41H	101	16.90	13.62	1.98	0.00	-15.60
6	352.00	29.5 QP	46.00	-16.50	1.36H	36	13.07	14.31	2.12	0.00	-16.43
7	383.00	38.9 QP	46.00	-7.10	1.41H	139	21.25	15.50	2.15	0.00	-17.65
8	433.00	35.1 QP	46.00	-10.90	1.36H	219	16.54	16.28	2.28	0.00	-18.56
9	480.00	36.0 QP	46.00	-10.00	1.31H	290	16.65	16.92	2.43	0.00	-19.35
10	544.00	37.1 QP	46.00	-8.90	1.24H	347	16.54	17.86	2.70	0.00	-20.57
11	576.00	40.7 QP	46.00	-5.30	1.18H	256	19.63	18.28	2.79	0.00	-21.07
12	626.00	37.0 QP	46.00	-9.00	1.10H	180	15.12	18.94	2.95	0.00	-21.89
13	720.00	37.1 QP	46.00	-8.90	1.04H	88	14.14	19.68	3.28	0.00	-22.97
14	817.80	33.4 QP	46.00	-12.60	1.20H	67	9.33	20.61	3.46	0.00	-24.08

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	31.6 QP	43.50	-11.90	1.37V	175	20.78	9.44	1.38	0.00	-10.82
2	192.00	30.5 QP	43.50	-13.00	1.29V	271	20.16	8.95	1.39	0.00	-10.34
3	233.00	42.0 QP	46.00	-4.00	1.22V	223	29.40	10.98	1.62	0.00	-12.60
4	256.00	31.5 QP	46.00	-14.50	1.34V	116	17.22	12.56	1.72	0.00	-14.28
5	288.00	33.9 QP	46.00	-12.10	1.43V	47	19.18	12.88	1.83	0.00	-14.73
6	300.00	36.2 QP	46.00	-9.80	1.52V	116	21.14	13.18	1.88	0.00	-15.07
7	320.00	35.0 QP	46.00	-11.00	1.58V	217	19.40	13.62	1.98	0.00	-15.60
8	352.00	33.8 QP	46.00	-12.20	1.50V	311	17.37	14.31	2.12	0.00	-16.43
9	400.00	34.7 QP	46.00	-11.30	1.43V	271	16.42	16.11	2.17	0.00	-18.28
10	420.00	37.4 QP	46.00	-8.60	1.32V	197	18.95	16.21	2.24	0.00	-18.46
11	433.00	38.9 QP	46.00	-7.10	1.38V	109	20.34	16.28	2.28	0.00	-18.57
12	480.00	37.0 QP	46.00	-9.00	1.38V	47	17.65	16.92	2.43	0.00	-19.36
13	529.00	35.7 QP	46.00	-10.30	1.50V	96	15.41	17.66	2.63	0.00	-20.30
14	544.00	33.8 QP	46.00	-12.20	1.34V	185	13.24	17.86	2.70	0.00	-20.56
15	576.00	37.4 QP	46.00	-8.60	1.31V	284	16.33	18.28	2.79	0.00	-21.08
16	599.00	38.0 QP	46.00	-8.00	1.24V	359	16.54	18.61	2.85	0.00	-21.47
17	640.00	33.0 QP	46.00	-13.00	1.49V	74	10.88	19.12	3.00	0.00	-22.13
18	736.00	27.1 QP	46.00	-18.90	1.24V	223	3.86	19.93	3.31	0.00	-23.25
19	818.00	30.4 QP	46.00	-15.60	1.37V	130	6.33	20.61	3.46	0.00	-24.08
20	900.00	29.7 QP	46.00	-16.30	1.28V	28	5.23	20.80	3.66	0.00	-24.48

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5148.10	42.3 AV	54.00	-11.70	1.67H	52	37.07	31.76	8.01	34.53	-5.24
2	5148.10	51.3 PK	74.00	-22.70	1.67H	52	46.05	31.76	8.01	34.53	-5.24
3	*5180.00	83.3 AV			1.57H	71	78.05	31.76	8.01	34.53	-5.24
4	*5180.00	91.4 PK			1.57H	71	86.20	31.76	8.01	34.53	-5.24
5	5212.00	41.8 AV	54.00	-12.20	1.42H	72	36.40	31.81	8.15	34.52	-5.44
6	5212.00	50.7 PK	74.00	-23.30	1.42H	72	45.30	31.81	8.15	34.52	-5.44
7	10390.00	46.8 AV	54.00	-7.20	1.33H	35	30.52	38.93	12.00	34.61	-16.32
8	10390.00	57.8 PK	74.00	-16.20	1.33H	35	41.50	38.93	12.00	34.61	-16.32

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5148.00	49.5 AV	54.00	-4.50	1.19V	94	44.25	31.76	8.01	34.53	-5.24
2	5148.00	59.0 PK	74.00	-15.00	1.19V	94	53.77	31.76	8.01	34.53	-5.24
3	*5180.00	89.3 AV			1.48V	127	84.09	31.76	8.01	34.53	-5.24
4	*5180.00	98.1 PK			1.48V	127	92.85	31.76	8.01	34.53	-5.24
5	5212.00	48.9 AV	54.00	-5.10	1.24V	90	43.46	31.81	8.15	34.52	-5.44
6	5212.00	56.5 PK	74.00	-17.50	1.24V	90	51.10	31.81	8.15	34.52	-5.44
7	10360.00	47.9 AV	54.00	-6.10	1.39V	40	31.77	38.86	11.92	34.65	-16.12
8	10360.00	58.6 PK	74.00	-15.40	1.39V	40	42.51	38.86	11.92	34.65	-16.12

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5240.00	79.7 AV			1.00H	29	74.16	31.85	8.22	34.50	-5.56
2	*5240.00	87.9 PK			1.00H	29	82.31	31.85	8.22	34.50	-5.56
3	5273.00	38.4 AV	54.00	-15.60	1.07H	28	32.75	31.89	8.28	34.48	-5.69
4	5273.00	50.1 PK	74.00	-23.90	1.07H	28	44.40	31.89	8.28	34.48	-5.70
5	10480.00	48.1 AV	54.00	-5.90	1.29H	28	30.83	39.06	12.73	34.52	-17.27
6	10480.00	60.1 PK	74.00	-13.90	1.29H	28	42.79	39.06	12.73	34.52	-17.27.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5144.00	46.1 AV	54.00	-7.90	1.23V	99	40.90	31.76	8.01	34.53	-5.24
2	5144.00	53.5 PK	74.00	-20.50	1.23V	99	48.29	31.76	8.01	34.53	-5.24
3	5208.00	49.9 AV	54.00	-4.10	1.22V	99	44.44	31.81	8.15	34.52	-5.44
4	5208.00	59.7 PK	74.00	-14.30	1.22V	99	54.22	31.81	8.15	34.52	-5.44.
5	*5240.00	99.2 PK			1.51V	97	93.60	31.85	8.22	34.50	-5.56
6	*5240.00	89.8 AV			1.51V	97	84.20	31.85	8.22	34.50	-5.56
7	5335.90	48.4 AV	54.00	-5.60	1.13V	104	42.80	31.93	8.16	34.47	-5.63
8	5335.90	55.0 PK	74.00	-19.00	1.13V	104	49.36	31.93	8.16	34.47	-5.63.
9	10480.00	50.9 AV	54.00	-3.10	1.30V	105	33.67	39.06	12.73	34.52	-17.27
10	10480.00	63.0 PK	74.00	-11.00	1.30V	105	45.76	39.06	12.73	34.52	-17.27.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5260.00	82.6 AV			1.00H	61	77.00	31.85	8.22	34.50	-5.56
2	*5260.00	89.8 PK			1.00H	61	84.20	31.85	8.22	34.50	-5.56
3	5356.00	40.1 AV	54.00	-13.90	1.01H	60	34.50	31.93	8.16	34.47	-5.63
4	5356.00	49.6 PK	74.00	-24.40	1.01H	60	44.00	31.93	8.16	34.47	-5.63
5	10520.00	50.6 AV	54.00	-3.40	1.17H	96	33.00	39.13	12.92	34.48	-17.56
6	10520.00	60.7 PK	74.00	-13.30	1.17H	96	43.10	39.13	12.92	34.48	-17.56.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5164.00	46.3 AV	54.00	-7.70	1.39V	104	41.10	31.76	8.01	34.53	-5.24
2	5164.00	52.6 PK	74.00	-21.40	1.39V	104	47.34	31.76	8.01	34.53	-5.24
3	5228.00	50.1 AV	54.00	-3.90	1.43V	109	44.62	31.81	8.15	34.52	-5.44
4	5228.00	59.1 PK	74.00	-14.90	1.43V	109	53.68	31.81	8.15	34.52	-5.44.
5	*5260.00	90.7 AV			1.43V	109	85.12	31.85	8.22	34.50	-5.56
6	*5260.00	99.6 PK			1.43V	109	94.00	31.85	8.22	34.50	-5.56
7	5292.00	60.0 PK	74.00	-14.00	1.43V	110	54.30	31.89	8.28	34.48	-5.70
8	5292.00	51.8 AV	54.00	-2.20	1.43V	109	46.10	31.89	8.28	34.48	-5.69
9	5356.00	49.8 AV	54.00	-4.20	1.43V	109	44.20	31.93	8.16	34.47	-5.63
10	5356.00	57.0 PK	74.00	-17.00	1.43V	109	51.37	31.93	8.16	34.47	-5.63.
11	10520.00	52.0 AV	54.00	-2.00	1.18V	94	34.40	39.13	12.92	34.48	-17.56
12	10520.00	61.8 PK	74.00	-12.20	1.18V	94	44.20	39.13	12.92	34.48	-17.56.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5288.00	41.4 AV	54.00	-12.60	1.59H	89	35.71	31.89	8.28	34.48	-5.69
2	5288.00	50.6 PK	74.00	-23.40	1.59H	89	44.91	31.89	8.28	34.48	-5.70
3	*5320.00	90.1 PK			1.54H	100	84.47	31.93	8.16	34.47	-5.64
4	*5320.00	82.5 AV			1.54H	100	76.87	31.93	8.16	34.47	-5.64
5	5352.00	41.1 AV	54.00	-12.90	1.52H	92	35.47	31.93	8.16	34.47	-5.63
6	5352.00	51.2 PK	74.00	-22.80	1.52H	92	45.57	31.93	8.16	34.47	-5.63
7	10640.00	59.3 PK	74.00	-14.70	1.45H	67	41.61	39.31	12.77	34.38	-17.69
8	10640.00	48.5 AV	54.00	-5.50	1.45H	67	30.81	39.31	12.77	34.38	-17.69

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5288.00	47.4 AV	54.00	-6.60	1.23V	87	41.67	31.89	8.28	34.48	-5.69
2	5288.00	56.5 PK	74.00	-17.50	1.23V	87	50.77	31.89	8.28	34.48	-5.69.
3	*5320.00	90.2 AV			1.21V	87	84.53	31.93	8.16	34.47	-5.64
4	*5320.00	98.2 PK			1.21V	87	92.58	31.93	8.16	34.47	-5.64
5	5352.00	51.9 AV	54.00	-2.10	1.22V	86	46.30	31.93	8.16	34.47	-5.63
6	5352.00	61.7 PK	74.00	-12.30	1.23V	87	56.10	31.93	8.16	34.47	-5.63.
7	5376.00	48.3 AV	54.00	-5.70	1.23V	87	42.74	31.98	8.01	34.45	-5.54
8	5376.00	58.3 PK	74.00	-15.70	1.23V	87	52.72	31.98	8.01	34.45	-5.54.
9	10640.00	51.2 AV	54.00	-2.80	1.33V	89	33.53	39.31	12.77	34.38	-17.69
10	10640.00	63.7 PK	74.00	-10.30	1.33V	89	46.01	39.31	12.77	34.38	-17.69.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5745.00	83.4 AV			1.51H	84	77.43	32.26	8.22	34.50	-5.98
2	*5745.00	90.7 PK			1.51H	84	84.75	32.26	8.22	34.50	-5.98
3	5777.00	43.2 AV	54.00	-10.80	1.49H	83	37.26	32.26	8.22	34.50	-5.98
4	5777.00	53.0 PK	74.00	-21.00	1.49H	83	47.03	32.26	8.22	34.50	-5.99
5	11490.00	48.7 AV	54.00	-5.30	1.38H	95	31.15	39.80	11.90	34.20	-17.50
6	11490.00	60.2 PK	74.00	-13.80	1.38H	95	42.74	39.80	11.90	34.20	-17.50.

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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5713.00	49.0 AV	54.00	-5.00	1.26V	89	43.12	32.23	8.10	34.49	-5.84
2	5713.00	56.6 PK	74.00	-17.40	1.26V	89	50.77	32.23	8.10	34.49	-5.84.
3	*5745.00	89.6 AV			1.26V	90	83.63	32.26	8.22	34.50	-5.99
4	*5745.00	96.2 PK			1.26V	90	90.20	32.26	8.22	34.50	-5.99
5	5777.00	48.3 AV	54.00	-5.70	1.24V	90	42.36	32.26	8.22	34.50	-5.98
6	5777.00	55.8 PK	74.00	-18.20	1.24V	90	49.85	32.26	8.22	34.50	-5.98.
7	11490.00	59.3 PK	74.00	-14.70	1.25V	87	41.80	39.80	11.90	34.20	-17.51
8	11490.00	49.1 AV	54.00	-4.90	1.25V	87	31.64	39.80	11.90	34.20	-17.50

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



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5805.00	81.6 AV			1.23H	88	75.48	32.28	8.35	34.52	-6.11
2	*5805.00	90.1 PK			1.23H	88	84.02	32.28	8.35	34.52	-6.11
3	5837.00	41.1 AV	54.00	-12.90	1.24H	88	34.86	32.31	8.48	34.54	-6.25
4	5837.00	52.0 PK	74.00	-22.00	1.24H	88	45.72	32.31	8.48	34.54	-6.25
5	11610.00	59.4 PK	74.00	-14.60	1.12H	98	42.00	39.62	12.02	34.30	-17.36
6	11610.00	49.1 AV	54.00	-4.90	1.12H	98	31.70	39.62	12.02	34.30	-17.35

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5773.00	47.4 AV	54.00	-6.60	1.17V	57	41.47	32.26	8.22	34.50	-5.98
2	5773.00	54.7 PK	74.00	-19.30	1.17V	57	48.69	32.26	8.22	34.50	-5.98.
3	*5805.00	88.5 AV			1.15V	58	82.43	32.28	8.35	34.52	-6.12
4	*5805.00	97.3 PK			1.15V	58	91.24	32.28	8.35	34.52	-6.12
5	5837.00	48.6 AV	54.00	-5.40	1.17V	57	42.38	32.31	8.48	34.54	-6.25
6	5837.00	57.3 PK	74.00	-16.70	1.17V	57	51.00	32.31	8.48	34.54	-6.25.
7	11610.00	50.6 AV	54.00	-3.40	1.22V	149	33.20	39.62	12.02	34.30	-17.35
8	11610.00	61.2 PK	74.00	-12.80	1.22V	149	43.80	39.62	12.02	34.30	-17.35.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5114.00	39.20 AV	54.00	-14.80	1.53H	52	34.20	31.72	7.85	34.55	-5.02
2	5114.00	50.80 PK	74.00	-23.20	1.53H	52	45.79	31.72	7.85	34.55	-5.02
3	*5210.00	81.80 AV			1.65H	72	76.40	31.81	8.15	34.52	-5.44
4	*5210.00	90.80 PK			1.65H	72	85.40	31.81	8.15	34.52	-5.44
5	10420.00	47.30 AV	54.00	-6.70	1.19H	112	30.50	39.00	12.34	34.56	-16.77
6	10420.00	58.80 PK	74.00	-15.20	1.19H	112	42.04	39.00	12.34	34.56	-16.77

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5114.00	46.4 AV	54.00	-7.60	1.13V	194	41.40	31.72	7.85	34.55	-5.02
2	5114.00	53.0 PK	74.00	-21.00	1.13V	194	47.99	31.72	7.85	34.55	-5.02
3	*5210.00	87.4 AV			1.24V	87	81.98	31.81	8.15	34.52	-5.44.
4	*5210.00	97.3 PK			1.24V	87	91.81	31.81	8.15	34.52	-5.44.
6	10420.00	50.2 AV	54.00	-3.80	1.20V	125	33.47	39.00	12.34	34.56	-16.77
7	10420.00	62.1 PK	74.00	-11.90	1.20V	125	45.32	39.00	12.34	34.56	-16.77.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5250.00	81.9 AV			1.50H	67	76.31	31.85	8.22	34.50	-5.56
2	*5250.00	90.0 PK			1.50H	67	84.45	31.85	8.22	34.50	-5.56
3	10500.00	48.4 AV	54.00	-5.60	1.31H	82	30.86	39.13	12.92	34.48	-17.56
4	10500.00	59.5 PK	74.00	-14.50	1.31H	82	41.95	39.13	12.92	34.48	-17.56.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5250.00	88.4 AV			1.00V	81	82.83	31.85	8.22	34.50	-5.56
2	*5250.00	97.2 PK			1.00V	81	91.67	31.85	8.22	34.50	-5.56
3	5346.00	51.5 AV	54.00	-2.50	1.25V	82	45.90	31.93	8.16	34.47	-5.63
4	5346.00	57.1 PK	74.00	-16.90	1.25V	82	51.50	31.93	8.16	34.47	-5.63.
5	5376.30	53.8 PK	74.00	-20.20	1.16V	85	48.30	31.98	8.01	34.45	-5.54
6	5376.30	43.2 AV	54.00	-10.80	1.16V	85	37.70	31.98	8.01	34.45	-5.54
7	10500.00	49.7 AV	54.00	-4.30	1.33V	86	32.16	39.13	12.92	34.48	-17.56
8	10500.00	60.9 PK	74.00	-13.10	1.33V	86	43.37	39.13	12.92	34.48	-17.56.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5290.00	78.8 AV			1.41H	64	73.15	31.89	8.28	34.48	-5.69
2	*5290.00	88.4 PK			1.41H	64	82.72	31.89	8.28	34.48	-5.69
3	5386.10	49.4 PK	74.00	-24.60	1.42H	63	43.84	31.98	8.01	34.45	-5.54
4	5386.10	39.0 AV	54.00	-15.00	1.42H	63	33.51	31.98	8.01	34.45	-5.54
5	10580.00	48.8 AV	54.00	-5.20	1.61H	3	31.20	39.19	12.86	34.45	-17.60
6	10580.00	59.8 PK	74.00	-14.20	1.61H	3	42.21	39.19	12.86	34.45	-17.60.

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5290.00	80.6 AV			1.08V	74	74.89	31.89	8.28	34.48	-5.69
2	*5290.00	89.7 PK			1.08V	74	84.05	31.89	8.28	34.48	-5.69
3	5386.10	43.6 AV	54.00	-10.40	1.08V	77	38.08	31.98	8.01	34.45	-5.54
4	5386.10	51.7 PK	74.00	-22.3	1.08V	77	46.20	31.98	8.01	34.45	-5.54
5	10580.00	49.0 AV	54.00	-5.00	1.57V	2	31.35	39.19	12.86	34.45	-17.60
6	10580.00	60.6 PK	74.00	-13.40	1.57V	2	43.00	39.19	12.86	34.45	-17.60.

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



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5760.00	63.9 AV			1.58H	92	57.89	32.26	8.22	34.50	-5.98
2	*5760.00	73.1 PK			1.58H	92	67.14	32.26	8.22	34.50	-5.98
3	11520.00	48.5 AV	54.00	-5.50	1.42H	349	31.07	39.74	11.94	34.23	-17.45
4	11520.00	60.4 PK	74.00	-13.60	1.42H	3	43.00	39.74	11.94	34.23	-17.45

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5760.00	71.1 Av			1.00V	59	65.10	32.26	8.22	34.50	-5.98
2	*5760.00	82.4 pk			1.00V	59	76.40	32.26	8.22	34.50	-5.98
3	11520.00	59.5 pk	74.00	-14.50	1.87V	60	42.04	39.74	11.94	34.23	-17.45
4	11520.00	48.5 Av	54.00	-5.50	1.87V	60	31.05	39.74	11.94	34.23	-17.45

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5800.00	65.0 AV			1.59H	352	58.87	32.28	8.35	34.52	-6.11
2	*5800.00	76.1 PK			1.59H	352	70.00	32.28	8.35	34.52	-6.11
3	11600.00	48.8 AV	54.00	-5.20	1.33H	266	31.40	39.68	11.97	34.27	-17.39
4	11600.00	59.7 PK	74.00	-14.30	1.33H	210	42.30	39.68	11.97	34.27	-17.39.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5800.00	72.1 AV			1.00V	27	66.00	32.28	8.35	34.52	-6.11
2	*5800.00	81.2 PK			1.00V	27	75.10	32.28	8.35	34.52	-6.11
3	11600.00	48.9 AV	54.00	-5.10	1.28V	27	31.50	39.68	11.97	34.27	-17.39
4	11600.00	58.6 PK	74.00	-15.40	1.28V	27	41.20	39.68	11.97	34.27	-17.39.

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

4.2.7 TEST RESULTS (B) (TRANSMITTING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	34.5 QP	43.50	-9.00	1.15H	323	23.68	9.44	1.38	0.00	-10.82
2	192.00	28.6 QP	43.50	-14.90	1.22H	233	18.26	8.95	1.39	0.00	-10.34
3	224.00	35.8 QP	46.00	-10.20	1.23H	142	23.84	10.41	1.56	0.00	-11.96
4	233.00	41.5 QP	46.00	-4.50	1.08H	28	28.90	10.98	1.62	0.00	-12.61
5	288.00	37.4 QP	46.00	-8.60	1.07H	70	22.68	12.88	1.83	0.00	-14.73
6	297.00	43.5 QP	46.00	-2.50	1.29H	233	28.51	13.12	1.87	0.00	-15.00
7	300.00	38.8 QP	46.00	-7.20	1.38H	328	23.74	13.18	1.88	0.00	-15.07
8	320.00	42.7 QP	46.00	-3.30	1.89H	214	27.10	13.62	1.98	0.00	-15.61
9	384.00	28.5 QP	46.00	-17.50	1.28H	98	10.85	15.50	2.15	0.00	-17.66
10	400.00	41.1 QP	46.00	-4.90	1.16H	27	22.82	16.11	2.17	0.00	-18.29
11	431.70	41.1 QP	46.00	-4.90	1.65H	88	22.54	16.28	2.28	0.00	-18.57
12	480.00	36.0 QP	46.00	-10.00	1.20H	217	16.65	16.92	2.43	0.00	-19.35
13	544.00	36.2 QP	46.00	-9.80	1.64H	358	15.64	17.86	2.70	0.00	-20.57
14	576.00	37.7 QP	46.00	-8.30	1.89H	227	16.63	18.28	2.79	0.00	-21.07
15	597.00	43.5 QP	46.00	-2.50	1.24H	85	22.08	18.58	2.84	0.00	-21.43
16	672.00	33.5 QP	46.00	-12.50	1.50H	32	11.11	19.27	3.13	0.00	-22.40
17	720.00	36.0 QP	46.00	-10.00	1.37H	125	13.04	19.68	3.28	0.00	-22.96

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.

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	36.0 QP	43.50	-7.50	1.30V	165	25.18	9.44	1.38	0.00	-10.82
2	192.00	30.1 QP	43.50	-13.40	1.25V	241	19.76	8.95	1.39	0.00	-10.34
3	224.00	32.3 QP	46.00	-13.70	1.04V	329	20.34	10.41	1.56	0.00	-11.96
4	233.00	43.3 QP	46.00	-2.70	1.76V	265	30.70	10.98	1.62	0.00	-12.61
5	256.00	30.0 QP	46.00	-16.00	1.37V	146	15.72	12.56	1.72	0.00	-14.28
6	300.00	41.9 QP	46.00	-4.10	1.47V	18	26.84	13.18	1.88	0.00	-15.06
7	320.00	36.6 QP	46.00	-9.40	1.27V	167	21.00	13.62	1.98	0.00	-15.61
8	352.00	31.1 QP	46.00	-14.90	1.39V	283	14.67	14.31	2.12	0.00	-16.43
9	384.00	36.0 QP	46.00	-10.00	1.17V	3	18.35	15.50	2.15	0.00	-17.65
10	400.00	39.2 QP	46.00	-6.80	1.40V	245	20.92	16.11	2.17	0.00	-18.29
11	416.00	34.0 QP	46.00	-12.00	1.09V	166	15.59	16.18	2.22	0.00	-18.41
12	448.00	29.5 QP	46.00	-16.50	1.08V	57	10.82	16.35	2.33	0.00	-18.68
13	480.00	38.7 QP	46.00	-7.30	1.04V	32	19.35	16.92	2.43	0.00	-19.36
14	527.00	37.4 QP	46.00	-8.60	1.45V	190	17.16	17.62	2.62	0.00	-20.24
15	544.00	30.5 QP	46.00	-15.50	1.33V	284	9.94	17.86	2.70	0.00	-20.56
16	576.00	36.8 QP	46.00	-9.20	1.11V	188	15.73	18.28	2.79	0.00	-21.07
17	597.00	43.5 QP	46.00	-2.50	1.40V	22	22.08	18.58	2.84	0.00	-21.43
18	720.00	30.0 QP	46.00	-16.00	1.56V	75	7.04	19.68	3.28	0.00	-22.97
19	800.00	27.8 QP	46.00	-18.20	1.52V	164	3.74	20.69	3.38	0.00	-24.06
20	818.00	30.6 QP	46.00	-15.40	1.21V	279	6.53	20.61	3.46	0.00	-24.07
21	960.00	29.4 QP	46.00	-16.60	1.32V	351	4.34	21.24	3.82	0.00	-25.06

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	35.0 QP	43.50	-8.50	1.09H	297	24.18	9.44	1.38	0.00	-10.82
2	192.00	29.3 QP	43.50	-14.20	1.21H	210	18.96	8.95	1.39	0.00	-10.34
3	224.00	36.1 QP	46.00	-9.90	1.23H	110	24.14	10.41	1.56	0.00	-11.96
4	233.00	41.0 QP	46.00	-5.00	1.01H	44	28.40	10.98	1.62	0.00	-12.61
5	288.00	36.9 QP	46.00	-9.10	1.16H	161	22.18	12.88	1.83	0.00	-14.72
6	297.00	42.8 QP	46.00	-3.20	1.25H	259	27.81	13.12	1.87	0.00	-14.99
7	300.00	37.5 QP	46.00	-8.50	1.32H	344	22.44	13.18	1.88	0.00	-15.06
8	320.00	43.7 QP	46.00	-2.30	1.88H	289	28.10	13.62	1.98	0.00	-15.60
9	384.00	28.0 QP	46.00	-18.00	1.16H	144	10.35	15.50	2.15	0.00	-17.65
10	400.00	41.4 QP	46.00	-4.60	1.21H	27	23.12	16.11	2.17	0.00	-18.29
11	431.70	41.4 QP	46.00	-4.60	1.68H	100	22.84	16.28	2.28	0.00	-18.57
12	480.00	36.5 QP	46.00	-9.50	1.50H	174	17.15	16.92	2.43	0.00	-19.36
13	544.00	38.7 QP	46.00	-7.30	1.64H	270	18.14	17.86	2.70	0.00	-20.57
14	576.00	37.2 QP	46.00	-8.80	1.84H	338	16.13	18.28	2.79	0.00	-21.07
15	597.00	43.9 QP	46.00	-2.10	1.59H	253	22.48	18.58	2.84	0.00	-21.43
16	672.00	33.0 QP	46.00	-13.00	1.55H	184	10.61	19.27	3.13	0.00	-22.39
17	720.00	35.2 QP	46.00	-10.80	1.15H	55	12.24	19.68	3.28	0.00	-22.97

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.

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	36.0 QP	43.50	-7.50	1.55V	226	25.18	9.44	1.38	0.00	-10.82
2	192.00	29.8 QP	43.50	-13.70	1.28V	138	19.46	8.95	1.39	0.00	-10.34
3	224.00	33.7 QP	46.00	-12.30	1.08V	45	21.74	10.41	1.56	0.00	-11.96
4	233.00	43.5 QP	46.00	-2.50	1.68V	197	30.90	10.98	1.62	0.00	-12.60
5	256.00	31.1 QP	46.00	-14.90	1.59V	303	16.82	12.56	1.72	0.00	-14.28
6	300.00	41.0 QP	46.00	-5.00	1.40V	3	25.94	13.18	1.88	0.00	-15.07
7	320.00	38.4 QP	46.00	-7.60	1.26V	320	22.80	13.62	1.98	0.00	-15.61
8	352.00	31.9 QP	46.00	-14.10	1.33V	249	15.47	14.31	2.12	0.00	-16.43
9	384.00	35.4 QP	46.00	-10.60	1.10V	128	17.75	15.50	2.15	0.00	-17.65
10	400.00	38.5 QP	46.00	-7.50	1.46V	29	20.22	16.11	2.17	0.00	-18.29
11	416.00	34.8 QP	46.00	-11.20	1.07V	151	16.39	16.18	2.22	0.00	-18.41
12	448.00	29.0 QP	46.00	-17.00	1.03V	253	10.32	16.35	2.33	0.00	-18.68
13	480.00	39.0 QP	46.00	-7.00	1.02V	2	19.65	16.92	2.43	0.00	-19.36
14	527.00	37.0 QP	46.00	-9.00	1.43V	272	16.76	17.62	2.62	0.00	-20.25
15	544.00	30.0 QP	46.00	-16.00	1.54V	138	9.44	17.86	2.70	0.00	-20.57
16	576.00	36.5 QP	46.00	-9.50	1.38V	32	15.43	18.28	2.79	0.00	-21.08
17	597.00	43.1 QP	46.00	-2.90	1.48V	89	21.68	18.58	2.84	0.00	-21.43
18	720.00	29.5 QP	46.00	-16.50	1.57V	305	6.54	19.68	3.28	0.00	-22.97
19	800.00	29.8 QP	46.00	-16.20	1.51V	333	5.74	20.69	3.38	0.00	-24.07
20	818.00	31.1 QP	46.00	-14.90	1.15V	222	7.03	20.61	3.46	0.00	-24.08
21	960.00	28.6 QP	46.00	-17.40	1.33V	146	3.54	21.24	3.82	0.00	-25.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5148.00	39.8 AV	54.00	-14.20	1.40H	73	34.60	31.76	8.01	34.53	-5.24
2	5148.00	50.5 PK	74.00	-23.50	1.40H	73	45.30	31.76	8.01	34.53	-5.24
3	*5180.00	81.2 AV			1.44H	76	75.96	31.76	8.01	34.53	-5.24
4	*5180.00	90.7 PK			1.44H	76	85.49	31.76	8.01	34.53	-5.24
5	5212.00	42.3 AV	54.00	-11.70	1.42H	77	36.86	31.81	8.15	34.52	-5.44
6	5212.00	51.1 PK	74.00	-22.90	1.42H	77	45.66	31.81	8.15	34.52	-5.44
7	10390.00	46.2 AV	54.00	-7.80	1.23H	45	29.88	38.93	12.00	34.61	-16.32
8	10390.00	56.6 PK	74.00	-17.40	1.23H	45	40.24	38.93	12.00	34.61	-16.32

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5148.00	48.0 AV	54.00	-6.00	1.41V	183	42.80	31.76	8.01	34.53	-5.24
2	5148.00	57.6 PK	74.00	-16.40	1.41V	183	52.40	31.76	8.01	34.53	-5.24
3	*5180.00	90.7 AV			1.38V	181	85.43	31.76	8.01	34.53	-5.24
4	*5180.00	99.0 PK			1.38V	181	93.75	31.76	8.01	34.53	-5.24
5	5212.00	49.2 AV	54.00	-4.80	1.38V	185	43.80	31.81	8.15	34.52	-5.44
6	5212.00	59.2 PK	74.00	-14.80	1.38V	185	53.76	31.81	8.15	34.52	-5.44
7	10360.00	47.4 AV	54.00	-6.60	1.27V	158	31.26	38.86	11.92	34.65	-16.12
8	10360.00	58.7 PK	74.00	-15.30	1.27V	158	42.54	38.86	11.92	34.65	-16.12

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5240.00	80.6 AV			1.52H	102	75.06	31.85	8.22	34.50	-5.56
2	*5240.00	88.4 PK			1.52H	102	82.80	31.85	8.22	34.50	-5.56
3	5273.00	39.9 AV	54.00	-14.10	1.49H	74	34.21	31.89	8.28	34.48	-5.69
4	5273.00	51.2 PK	74.00	-22.80	1.49H	74	45.56	31.89	8.28	34.48	-5.70
5	10480.00	48.7 AV	54.00	-5.30	1.26H	141	31.42	39.06	12.73	34.52	-17.27
6	10480.00	59.5 PK	74.00	-14.50	1.26H	141	42.27	39.06	12.73	34.52	-17.27.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5144.00	54.3 PK	74.00	-19.70	1.54V	176	49.07	31.76	8.01	34.53	-5.24
2	5144.00	46.5 AV	54.00	-7.50	1.54V	176	41.24	31.76	8.01	34.53	-5.24
3	5208.00	50.0 AV	54.00	-4.00	1.52V	172	44.56	31.81	8.15	34.52	-5.44
4	5208.00	60.2 PK	74.00	-13.80	1.52V	172	54.78	31.81	8.15	34.52	-5.44.
5	*5240.00	99.9 PK			1.57V	186	94.34	31.85	8.22	34.50	-5.56
6	*5240.00	90.2 AV			1.57V	186	84.65	31.85	8.22	34.50	-5.56
7	5335.90	48.9 AV	54.00	-5.10	1.54V	190	43.23	31.93	8.16	34.47	-5.63
8	5335.90	58.7 PK	74.00	-15.30	1.54V	190	53.10	31.93	8.16	34.47	-5.63.
9	10480.00	50.4 AV	54.00	-3.60	1.48V	221	33.14	39.06	12.73	34.52	-17.27
10	10480.00	60.9 PK	74.00	-13.10	1.48V	221	43.61	39.06	12.73	34.52	-17.27.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5260.00	81.4 AV			1.05H	90	75.87	31.85	8.22	34.50	-5.56
2	*5260.00	88.5 PK			1.05H	90	82.91	31.85	8.22	34.50	-5.56
3	5356.00	48.8 PK	74.00	-25.20	1.00H	86	43.13	31.93	8.16	34.47	-5.63
4	5356.00	40.0 AV	54.00	-14.00	1.00H	86	34.41	31.93	8.16	34.47	-5.63
5	10520.00	49.8 AV	54.00	-4.20	1.23H	110	32.22	39.13	12.92	34.48	-17.56
6	10520.00	59.3 PK	74.00	-14.70	1.23H	110	41.70	39.13	12.92	34.48	-17.56.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5164.00	47.2 AV	54.00	-6.80	1.54V	206	41.99	31.76	8.01	34.53	-5.24
2	5164.00	53.0 PK	74.00	-21.00	1.54V	206	47.76	31.76	8.01	34.53	-5.24
3	5228.00	50.4 AV	54.00	-3.60	1.51V	200	44.92	31.81	8.15	34.52	-5.44
4	5228.00	58.7 PK	74.00	-15.30	1.51V	200	53.24	31.81	8.15	34.52	-5.44.
5	*5260.00	99.8 PK			1.53V	192	94.24	31.85	8.22	34.50	-5.56
6	*5260.00	90.9 AV			1.53V	192	85.34	31.85	8.22	34.50	-5.56
7	5292.00	51.4 AV	54.00	-2.60	1.50V	197	45.67	31.89	8.28	34.48	-5.69
8	5292.00	59.7 PK	74.00	-14.30	1.50V	197	54.05	31.89	8.28	34.48	-5.69.
9	5356.00	61.3 PK	74.00	-12.70	1.58V	203	55.65	31.93	8.16	34.47	-5.63.
10	5356.00	51.4 AV	54.00	-2.60	1.58V	203	45.73	31.93	8.16	34.47	-5.63
11	10520.00	51.2 AV	54.00	-2.80	1.45V	124	33.67	39.13	12.92	34.48	-17.56
12	10520.00	61.0 PK	74.00	-13.00	1.45V	124	43.44	39.13	12.92	34.48	-17.56.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5288.00	40.6 AV	54.00	-13.40	1.25H	86	34.91	31.89	8.28	34.48	-5.69
2	5288.00	50.2 PK	74.00	-23.80	1.25H	86	44.54	31.89	8.28	34.48	-5.70
3	*5320.00	88.5 PK			1.15H	94	82.91	31.93	8.16	34.47	-5.64
4	*5320.00	81.0 AV			1.15H	94	75.34	31.93	8.16	34.47	-5.64
5	5352.00	40.4 AV	54.00	-13.60	1.18H	89	34.73	31.93	8.16	34.47	-5.63
6	5352.00	51.2 PK	74.00	-22.80	1.18H	89	45.57	31.93	8.16	34.47	-5.63
7	10640.00	48.0 AV	54.00	-6.00	1.67H	103	30.31	39.31	12.77	34.38	-17.69
8	10640.00	58.2 PK	74.00	-15.80	1.67H	103	40.51	39.31	12.77	34.38	-17.69.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5288.00	47.0 AV	54.00	-7.00	1.48V	174	41.31	31.89	8.28	34.48	-5.69
2	5288.00	56.1 PK	74.00	-17.90	1.48V	174	50.41	31.89	8.28	34.48	-5.69.
3	*5320.00	89.8 AV			1.56V	186	84.13	31.93	8.16	34.47	-5.64
4	*5320.00	97.9 PK			1.56V	186	92.26	31.93	8.16	34.47	-5.64
5	5352.00	51.5 AV	54.00	-2.50	1.54V	180	45.87	31.93	8.16	34.47	-5.63
6	5352.00	61.3 PK	74.00	-12.70	1.54V	180	55.67	31.93	8.16	34.47	-5.63.
7	5376.00	48.0 AV	54.00	-6.00	1.57V	187	42.46	31.98	8.01	34.45	-5.54
8	5376.00	58.1 PK	74.00	-15.90	1.57V	187	52.58	31.98	8.01	34.45	-5.54.
9	10640.00	51.0 AV	54.00	-3.00	1.39V	111	33.27	39.31	12.77	34.38	-17.69
10	10640.00	62.5 PK	74.00	-11.50	1.39V	111	44.76	39.31	12.77	34.38	-17.69.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5745.00	82.0 AV			1.17H	75	76.02	32.26	8.22	34.50	-5.98
2	*5745.00	89.1 PK			1.17H	75	83.12	32.26	8.22	34.50	-5.98
3	5777.00	42.3 AV	54.00	-11.70	1.23H	84	36.32	32.26	8.22	34.50	-5.98
4	5777.00	52.7 PK	74.00	-21.30	1.23H	84	46.72	32.26	8.22	34.50	-5.99
5	11490.00	48.2 AV	54.00	-5.80	1.40H	122	30.70	39.80	11.90	34.20	-17.50
6	11490.00	59.3 PK	74.00	-14.70	1.40H	122	41.84	39.80	11.90	34.20	-17.50.

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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5713.00	48.5 AV	54.00	-5.50	1.64V	180	42.68	32.23	8.10	34.49	-5.84
2	5713.00	56.1 PK	74.00	-17.90	1.64V	180	50.29	32.23	8.10	34.49	-5.84.
3	*5745.00	88.6 AV			1.58V	185	82.58	32.26	8.22	34.50	-5.99
4	*5745.00	95.2 PK			1.58V	185	89.22	32.26	8.22	34.50	-5.99
5	5777.00	47.3 AV	54.00	-6.70	1.54V	177	41.34	32.26	8.22	34.50	-5.98
6	5777.00	58.0 PK	74.00	-16.00	1.54V	177	52.02	32.26	8.22	34.50	-5.98.
7	11490.00	58.9 PK	74.00	-15.10	1.67V	107	41.40	39.80	11.90	34.20	-17.51
8	11490.00	48.8 AV	54.00	-5.20	1.67V	107	31.26	39.80	11.90	34.20	-17.50

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



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5805.00	80.0 AV			1.10H	87	73.90	32.28	8.35	34.52	-6.11
2	*5805.00	89.2 PK			1.10H	87	83.09	32.28	8.35	34.52	-6.11
3	5837.00	40.6 AV	54.00	-13.40	1.05H	91	34.35	32.31	8.48	34.54	-6.25
4	5837.00	51.5 PK	74.00	-22.50	1.05H	91	45.21	32.31	8.48	34.54	-6.25
5	11610.00	58.9 PK	74.00	-15.10	1.54H	122	41.59	39.62	12.02	34.30	-17.36
6	11610.00	48.7 AV	54.00	-5.30	1.54H	122	31.37	39.62	12.02	34.30	-17.35

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5773.00	48.1 AV	54.00	-5.90	1.51V	177	42.14	32.26	8.22	34.50	-5.98
2	5773.00	55.3 PK	74.00	-18.70	1.51V	177	49.32	32.26	8.22	34.50	-5.98
3	*5805.00	87.6 AV			1.53V	170	81.49	32.28	8.35	34.52	-6.12
4	*5805.00	96.7 AV			1.53V	170	90.57	32.28	8.35	34.52	-6.12
5	5837.00	48.6 AV	54.00	-5.40	1.51V	178	42.37	32.31	8.48	34.54	-6.25
6	5837.00	57.2 PK	74.00	-16.80	1.51V	178	50.95	32.31	8.48	34.54	-6.25
7	11610.00	50.8 AV	54.00	-3.20	1.39V	141	33.49	39.62	12.02	34.30	-17.35
8	11610.00	61.0 PK	74.00	-13.00	1.39V	141	43.65	39.62	12.02	34.30	-17.35

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5114.00	38.7 AV	54.00	-15.30	1.22H	93	33.67	31.72	7.85	34.55	-5.02
2	5114.00	50.2 PK	74.00	-23.80	1.22H	93	45.23	31.72	7.85	34.55	-5.02
3	*5210.00	81.0 AV			1.14H	88	75.56	31.81	8.15	34.52	-5.44
4	*5210.00	90.4 PK			1.14H	88	84.99	31.81	8.15	34.52	-5.44
5	10420.00	48.1 AV	54.00	-5.90	1.07H	187	31.33	39.00	12.34	34.56	-16.77
6	10420.00	58.4 PK	74.00	-15.60	1.07H	187	41.59	39.00	12.34	34.56	-16.77

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5114.00	45.4 AV	54.00	-8.60	1.50V	170	40.36	31.72	7.85	34.55	-5.02
2	5114.00	52.5 PK	74.00	-21.50	1.50V	170	47.46	31.72	7.85	34.55	-5.02
3	*5210.00	88.4 AV			1.54V	176	82.96	31.81	8.15	34.52	-5.44
4	*5210.00	97.8 PK			1.54V	176	92.36	31.81	8.15	34.52	-5.44
5	10420.00	50.0 AV	54.00	-4.00	1.41V	130	33.23	39.00	12.34	34.56	-16.77
6	10420.00	61.2 PK	74.00	-12.80	1.41V	130	44.46	39.00	12.34	34.56	-16.77

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5250.00	80.6 AV			1.05H	88	75.08	31.85	8.22	34.50	-5.56
2	*5250.00	91.3 PK			1.05H	88	85.74	31.85	8.22	34.50	-5.56
3	10500.00	48.9 AV	54.00	-5.10	1.27H	55	31.34	39.13	12.92	34.48	-17.56
4	10500.00	59.2 PK	74.00	-14.80	1.27H	55	41.65	39.13	12.92	34.48	-17.56.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5250.00	89.7 AV			1.65V	202	84.16	31.85	8.22	34.50	-5.56
2	*5250.00	98.0 PK			1.65V	202	92.44	31.85	8.22	34.50	-5.56
3	5346.00	51.7 AV	54.00	-2.30	1.50V	196	46.07	31.93	8.16	34.47	-5.63
4	5346.00	57.7 PK	74.00	-16.30	1.50V	196	52.07	31.93	8.16	34.47	-5.63.
5	5376.00	42.6 AV	54.00	-11.40	1.57V	204	37.06	31.98	8.01	34.45	-5.54
6	5376.00	52.8 PK	74.00	-21.20	1.57V	204	47.26	31.98	8.01	34.45	-5.54
7	10500.00	49.4 AV	54.00	-4.60	1.14V	130	31.79	39.13	12.92	34.48	-17.56
8	10500.00	59.8 PK	74.00	-14.20	1.14V	130	42.28	39.13	12.92	34.48	-17.56.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5290.00	77.6 AV			1.17H	106	71.91	31.89	8.28	34.48	-5.69
2	*5290.00	87.4 PK			1.17H	106	81.71	31.89	8.28	34.48	-5.69
3	5386.10	38.6 AV	54.00	-15.40	1.23H	136	33.06	31.98	8.01	34.45	-5.54
4	5386.10	48.4 PK	74.00	-25.60	1.23H	136	42.86	31.98	8.01	34.45	-5.54
5	10580.00	47.3 AV	54.00	-6.70	1.52H	255	29.70	39.19	12.86	34.45	-17.60
6	10580.00	58.4 PK	74.00	-15.60	1.52H	255	40.80	39.19	12.86	34.45	-17.60.

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5290.00	79.2 AV			1.72V	206	73.56	31.89	8.28	34.48	-5.69
2	*5290.00	88.4 PK			1.72V	206	82.72	31.89	8.28	34.48	-5.69
3	5386.10	51.2 PK	74.00	-22.80	1.69V	198	45.66	31.98	8.01	34.45	-5.54
4	5386.10	43.0 AV	54.00	-11.00	1.69V	198	37.46	31.98	8.01	34.45	-5.54
5	10580.00	49.2 AV	54.00	-4.80	1.37V	83	31.60	39.19	12.86	34.45	-17.60
6	10580.00	60.1 PK	74.00	-13.90	1.37V	83	42.55	39.19	12.86	34.45	-17.60.

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



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5760.00	64.8 AV			1.35H	72	58.82	32.26	8.22	34.50	-5.98
2	*5760.00	74.2 PK			1.35H	72	68.22	32.26	8.22	34.50	-5.98
3	11520.00	49.1 AV	54.00	-4.90	1.66H	213	31.65	39.74	11.94	34.23	-17.45
4	11520.00	59.7 PK	74.00	-14.30	1.66H	213	42.25	39.74	11.94	34.23	-17.45.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5760.00	72.6 AV			1.57V	190	66.62	32.26	8.22	34.50	-5.98
2	*5760.00	83.4 PK			1.57V	190	77.42	32.26	8.22	34.50	-5.98
3	11520.00	48.9 AV	54.00	-5.10	1.27V	128	31.45	39.74	11.94	34.23	-17.45
4	11520.00	59.2 PK	74.00	-14.80	1.27V	128	41.75	39.74	11.94	34.23	-17.45.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5800.00	66.8 AV			1.23H	80	60.69	32.28	8.35	34.52	-6.11
2	*5800.00	77.5 PK			1.23H	80	71.37	32.28	8.35	34.52	-6.11
3	11600.00	48.0 AV	54.00	-6.00	1.09H	148	30.61	39.68	11.97	34.27	-17.39
4	11600.00	58.8 PK	74.00	-15.20	1.09H	148	41.36	39.68	11.97	34.27	-17.39.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5800.00	73.0 AV			1.81V	226	66.89	32.28	8.35	34.52	-6.11
2	*5800.00	82.4 PK			1.81V	226	76.29	32.28	8.35	34.52	-6.11
3	11600.00	58.1 PK	74.00	-15.90	1.50V	307	40.71	39.68	11.97	34.27	-17.39
4	11600.00	48.3 AV	54.00	-5.70	1.50V	307	30.91	39.68	11.97	34.27	-17.39

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

4.2.8 TEST RESULTS (C) (TRANSMITTING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	39.2 QP	43.50	-4.30	1.16H	254	28.38	9.44	1.38	0.00	-10.82
2	233.00	42.2 QP	46.00	-3.80	1.06H	341	29.60	10.98	1.62	0.00	-12.60
3	241.00	32.8 QP	46.00	-13.20	1.52H	256	19.72	11.41	1.67	0.00	-13.08
4	288.00	38.8 QP	46.00	-7.20	1.67H	147	24.08	12.88	1.83	0.00	-14.73
5	297.00	41.5 QP	46.00	-4.50	1.49H	47	26.51	13.12	1.87	0.00	-14.99
6	320.00	32.0 QP	46.00	-14.00	1.27H	89	16.40	13.62	1.98	0.00	-15.61
7	400.00	40.2 QP	46.00	-5.80	1.11H	161	21.92	16.11	2.17	0.00	-18.29
8	431.69	37.0 QP	46.00	-9.00	1.25H	235	18.44	16.28	2.28	0.00	-18.57
9	480.00	31.5 QP	46.00	-14.50	1.11H	304	12.15	16.92	2.43	0.00	-19.35
10	500.00	33.4 QP	46.00	-12.60	1.74H	275	13.65	17.26	2.49	0.00	-19.75
11	528.00	38.5 QP	46.00	-7.50	1.47H	144	18.26	17.62	2.62	0.00	-20.25
12	544.00	39.1 QP	46.00	-6.90	1.33H	60	18.54	17.86	2.70	0.00	-20.56
13	551.60	36.2 QP	46.00	-9.80	1.71H	118	15.51	17.96	2.73	0.00	-20.70
14	576.00	35.0 QP	46.00	-11.00	1.93H	226	13.93	18.28	2.79	0.00	-21.07
15	597.00	43.8 QP	46.00	-2.20	1.45H	349	22.38	18.58	2.84	0.00	-21.43
16	720.00	34.2 QP	46.00	-11.80	1.19H	343	11.24	19.68	3.28	0.00	-22.96
17	800.00	35.1 QP	46.00	-10.90	1.25H	167	11.04	20.69	3.38	0.00	-24.06

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	36.3 QP	43.50	-7.20	1.06V	65	25.48	9.44	1.38	0.00	-10.82
2	192.00	30.5 QP	43.50	-13.00	1.15V	127	20.16	8.95	1.39	0.00	-10.34
3	233.00	43.8 QP	46.00	-2.20	1.91V	287	31.20	10.98	1.62	0.00	-12.60
4	256.00	30.4 QP	46.00	-15.60	1.75V	3	16.12	12.56	1.72	0.00	-14.28
5	288.00	37.6 QP	46.00	-8.40	1.32V	332	22.88	12.88	1.83	0.00	-14.73
6	300.00	41.0 QP	46.00	-5.00	1.23V	236	25.94	13.18	1.88	0.00	-15.07
7	320.00	35.5 QP	46.00	-10.50	1.36V	120	19.90	13.62	1.98	0.00	-15.60
8	352.00	30.7 QP	46.00	-15.30	1.48V	40	14.27	14.31	2.12	0.00	-16.43
9	384.00	37.0 QP	46.00	-9.00	1.12V	97	19.35	15.50	2.15	0.00	-17.65
10	400.00	36.2 QP	46.00	-9.80	1.06V	160	17.92	16.11	2.17	0.00	-18.28
11	416.00	30.3 QP	46.00	-15.70	1.13V	226	11.89	16.18	2.22	0.00	-18.41
12	431.70	42.2 QP	46.00	-3.80	1.45V	351	23.64	16.28	2.28	0.00	-18.56
13	480.00	35.9 QP	46.00	-10.10	1.39V	328	16.55	16.92	2.43	0.00	-19.35
14	512.00	30.1 QP	46.00	-15.90	1.60V	206	10.13	17.42	2.55	0.00	-19.97
15	544.00	32.5 QP	46.00	-13.50	1.55V	72	11.94	17.86	2.70	0.00	-20.57
16	576.00	34.8 QP	46.00	-11.20	1.69V	93	13.73	18.28	2.79	0.00	-21.08
17	597.00	43.2 QP	46.00	-2.80	1.07V	225	21.78	18.58	2.84	0.00	-21.43
18	640.00	27.0 QP	46.00	-19.00	1.09V	309	4.88	19.12	3.00	0.00	-22.13
19	720.00	32.2 QP	46.00	-13.80	1.15V	3	9.24	19.68	3.28	0.00	-22.97
20	800.00	27.6 QP	46.00	-18.40	1.10V	253	3.54	20.69	3.38	0.00	-24.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	40.8 QP	43.50	-2.70	1.28H	272	29.98	9.44	1.38	0.00	-10.82
2	233.00	42.1 QP	46.00	-3.90	1.00H	325	29.50	10.98	1.62	0.00	-12.60
3	241.00	32.8 QP	46.00	-13.20	1.20H	248	19.72	11.41	1.67	0.00	-13.08
4	288.00	40.8 QP	46.00	-5.20	1.40H	153	26.08	12.88	1.83	0.00	-14.73
5	297.00	42.8 QP	46.00	-3.20	1.37H	95	27.81	13.12	1.87	0.00	-14.99
6	320.00	33.0 QP	46.00	-13.00	1.26H	194	17.40	13.62	1.98	0.00	-15.60
7	400.00	40.0 QP	46.00	-6.00	1.08H	349	21.72	16.11	2.17	0.00	-18.28
8	431.70	38.6 QP	46.00	-7.40	1.31H	259	20.04	16.28	2.28	0.00	-18.56
9	480.00	33.8 QP	46.00	-12.20	1.22H	183	14.45	16.92	2.43	0.00	-19.35
10	500.00	32.9 QP	46.00	-13.10	1.70H	61	13.15	17.26	2.49	0.00	-19.75
11	528.00	36.4 QP	46.00	-9.60	1.81H	78	16.16	17.62	2.62	0.00	-20.25
12	544.00	38.9 QP	46.00	-7.10	1.87H	153	18.34	17.86	2.70	0.00	-20.57
13	551.60	37.8 QP	46.00	-8.20	1.64H	235	17.11	17.96	2.73	0.00	-20.70
14	576.00	36.8 QP	46.00	-9.20	1.97H	356	15.73	18.28	2.79	0.00	-21.07
15	597.00	43.5 QP	46.00	-2.50	1.89H	232	22.08	18.58	2.84	0.00	-21.43
16	720.00	35.4 QP	46.00	-10.60	1.64H	158	12.44	19.68	3.28	0.00	-22.96
17	800.00	35.6 QP	46.00	-10.40	1.44H	100	11.54	20.69	3.38	0.00	-24.06

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	36.2 QP	43.50	-7.30	1.16V	212	25.38	9.44	1.38	0.00	-10.82
2	192.00	28.7 QP	43.50	-14.80	1.08V	142	18.36	8.95	1.39	0.00	-10.34
3	233.00	43.3 QP	46.00	-2.70	1.86V	45	30.70	10.98	1.62	0.00	-12.60
4	256.00	30.4 QP	46.00	-15.60	1.67V	74	16.12	12.56	1.72	0.00	-14.28
5	288.00	37.2 QP	46.00	-8.80	1.54V	167	22.48	12.88	1.83	0.00	-14.72
6	300.00	42.1 QP	46.00	-3.90	1.34V	271	27.04	13.18	1.88	0.00	-15.06
7	320.00	35.8 QP	46.00	-10.20	1.10V	261	20.20	13.62	1.98	0.00	-15.60
8	352.00	30.0 QP	46.00	-16.00	1.18V	150	13.57	14.31	2.12	0.00	-16.43
9	384.00	38.0 QP	46.00	-8.00	1.37V	44	20.35	15.50	2.15	0.00	-17.65
10	400.00	37.5 QP	46.00	-8.50	1.27V	59	19.22	16.11	2.17	0.00	-18.28
11	416.00	30.8 QP	46.00	-15.20	1.10V	144	12.39	16.18	2.22	0.00	-18.41
12	431.70	41.1 QP	46.00	-4.90	1.06V	3	22.54	16.28	2.28	0.00	-18.56
13	480.00	34.3 QP	46.00	-11.70	1.32V	311	14.95	16.92	2.43	0.00	-19.35
14	512.00	32.8 QP	46.00	-13.20	1.59V	183	12.83	17.42	2.55	0.00	-19.97
15	544.00	31.0 QP	46.00	-15.00	1.27V	80	10.44	17.86	2.70	0.00	-20.57
16	576.00	30.7 QP	46.00	-15.30	1.59V	209	9.63	18.28	2.79	0.00	-21.08
17	597.00	42.8 QP	46.00	-3.20	1.37V	300	21.38	18.58	2.84	0.00	-21.43
18	640.00	29.6 QP	46.00	-16.40	1.50V	347	7.48	19.12	3.00	0.00	-22.13
19	720.00	33.0 QP	46.00	-13.00	1.14V	260	10.04	19.68	3.28	0.00	-22.96
20	800.00	28.5 QP	46.00	-17.50	1.07V	207	4.44	20.69	3.38	0.00	-24.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5148.00	43.0 AV	54.00	-11.00	1.30H	95	37.76	31.76	8.01	34.53	-5.24
2	5148.00	52.8 PK	74.00	-21.20	1.30H	95	47.54	31.76	8.01	34.53	-5.24
3	*5180.00	84.5 AV			1.50H	84	79.26	31.76	8.01	34.53	-5.24
4	*5180.00	92.2 PK			1.50H	84	86.92	31.76	8.01	34.53	-5.24
5	5212.00	42.1 AV	54.00	-11.90	1.46H	74	36.69	31.81	8.15	34.52	-5.44
6	5212.00	52.1 PK	74.00	-21.90	1.46H	74	46.62	31.81	8.15	34.52	-5.44
7	10360.00	47.6 AV	54.00	-6.40	1.28H	58	31.52	38.86	11.92	34.65	-16.12
8	10360.00	58.4 PK	74.00	-15.60	1.28H	58	42.31	38.86	11.92	34.65	-16.12.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5148.00	48.8 AV	54.00	-5.20	1.25V	289	43.60	31.76	8.01	34.53	-5.24
2	5148.00	59.2 PK	74.00	-14.80	1.25V	289	53.95	31.76	8.01	34.53	-5.24.
3	*5180.00	90.4 AV			1.33V	112	85.12	31.76	8.01	34.53	-5.24
4	*5180.00	98.5 PK			1.33V	112	93.23	31.76	8.01	34.53	-5.24
5	5212.00	49.4 AV	54.00	-4.60	1.38V	24	43.96	31.81	8.15	34.52	-5.44
6	5212.00	58.9 PK	74.00	-15.10	1.38V	24	53.46	31.81	8.15	34.52	-5.44.
7	10360.00	47.7 AV	54.00	-6.30	1.51V	34	31.53	38.86	11.92	34.65	-16.12
8	10360.00	58.5 PK	74.00	-15.50	1.51V	34	42.36	38.86	11.92	34.65	-16.12.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5240.00	88.9 AV			1.12H	101	83.34	31.85	8.22	34.50	-5.56
2	*5240.00	99.1 PK			1.12H	101	93.56	31.85	8.22	34.50	-5.56
3	5273.00	42.7 AV	54.00	-11.30	1.27H	119	37.01	31.89	8.28	34.48	-5.69
4	5273.00	53.1 PK	74.00	-20.90	1.27H	119	47.41	31.89	8.28	34.48	-5.70
5	10480.00	47.6 AV	54.00	-6.40	1.27H	84	30.32	39.06	12.73	34.52	-17.27
6	10480.00	59.1 PK	74.00	-14.90	1.27H	84	41.79	39.06	12.73	34.52	-17.27

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5144.00	45.4 AV	54.00	-8.60	1.30V	108	40.13	31.76	8.01	34.53	-5.24
2	5144.00	52.7 PK	74.00	-21.30	1.30V	108	47.47	31.76	8.01	34.53	-5.24
3	5208.00	49.2 AV	54.00	-4.80	1.44V	117	43.79	31.81	8.15	34.52	-5.44
4	5208.00	58.9 PK	74.00	-15.10	1.44V	117	53.43	31.81	8.15	34.52	-5.44
5	*5240.00	88.4 AV			1.26V	84	82.80	31.85	8.22	34.50	-5.56
6	*5240.00	98.5 PK			1.26V	84	92.89	31.85	8.22	34.50	-5.56
7	5336.00	49.1 AV	54.00	-4.90	1.17V	92	43.49	31.93	8.16	34.47	-5.63
8	5336.00	55.8 PK	74.00	-18.20	1.17V	92	50.17	31.93	8.16	34.47	-5.63
9	10480.00	50.2 AV	54.00	-3.80	1.39V	38	32.90	39.06	12.73	34.52	-17.27
10	10480.00	62.4 PK	74.00	-11.60	1.37V	38	45.14	39.06	12.73	34.52	-17.27

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5164.00	45.9 AV	54.00	-8.10	1.21H	106	40.62	31.76	8.01	34.53	-5.24
2	5164.00	51.9 PK	74.00	-22.10	1.21H	106	46.62	31.76	8.01	34.53	-5.24
3	5228.00	50.2 AV	54.00	-3.80	1.25H	101	44.79	31.81	8.15	34.52	-5.44
4	5228.00	60.1 PK	74.00	-13.90	1.25H	101	54.66	31.81	8.15	34.52	-5.44
5	*5260.00	99.1 PK			1.33H	91	93.56	31.85	8.22	34.50	-5.56
6	*5260.00	90.5 AV			1.33H	91	84.97	31.85	8.22	34.50	-5.56
7	5292.00	59.2 PK	74.00	-14.80	1.27H	80	53.54	31.89	8.28	34.48	-5.70
8	5292.00	50.9 AV	54.00	-3.10	1.27H	80	45.17	31.89	8.28	34.48	-5.69
9	5356.00	48.3 AV	54.00	-5.70	1.32H	87	42.63	31.93	8.16	34.47	-5.63
10	5356.00	56.5 PK	74.00	-17.50	1.32H	87	50.82	31.93	8.16	34.47	-5.63
11	10520.00	51.2 AV	54.00	-2.80	1.06H	127	33.63	39.13	12.92	34.48	-17.56
12	10520.00	60.4 PK	74.00	-13.60	1.06H	127	42.87	39.13	12.92	34.48	-17.56

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5164.00	45.2 AV	54.00	-8.80	1.53V	111	39.93	31.76	8.01	34.53	-5.24
2	5164.00	51.2 PK	74.00	-22.80	1.53V	111	46.01	31.76	8.01	34.53	-5.24
3	5228.00	50.4 AV	54.00	-3.60	1.30V	119	44.92	31.81	8.15	34.52	-5.44
4	5228.00	58.6 PK	74.00	-15.40	1.30V	119	53.19	31.81	8.15	34.52	-5.44
5	*5260.00	88.5 AV			1.54V	82	82.90	31.85	8.22	34.50	-5.56
6	*5260.00	97.5 PK			1.54V	82	91.98	31.85	8.22	34.50	-5.56
7	5292.00	59.1 PK	74.00	-14.90	1.47V	77	53.41	31.89	8.28	34.48	-5.70
8	5292.00	50.6 AV	54.00	-3.40	1.47V	77	44.87	31.89	8.28	34.48	-5.69
9	5356.00	47.7 AV	54.00	-6.30	1.57V	85	42.03	31.93	8.16	34.47	-5.63
10	5356.00	56.1 PK	74.00	-17.90	1.57V	85	50.52	31.93	8.16	34.47	-5.63
11	10520.00	51.4 AV	54.00	-2.60	1.28V	118	33.84	39.13	12.92	34.48	-17.56
12	10520.00	60.9 PK	74.00	-13.10	1.28V	118	43.33	39.13	12.92	34.48	-17.56

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5288.00	48.5 AV	54.00	-5.50	1.32H	108	42.84	31.89	8.28	34.48	-5.69
2	5288.00	55.7 PK	74.00	-18.30	1.32H	108	50.02	31.89	8.28	34.48	-5.69.
3	*5320.00	98.6 PK			1.44H	120	92.96	31.93	8.16	34.47	-5.64
4	*5320.00	90.8 AV			1.44H	120	85.13	31.93	8.16	34.47	-5.64
5	5352.00	51.5 AV	54.00	-2.50	1.39H	114	45.82	31.93	8.16	34.47	-5.63
6	5352.00	61.2 PK	74.00	-12.80	1.39H	114	55.60	31.93	8.16	34.47	-5.63.
7	5376.00	49.0 AV	54.00	-5.00	1.21H	102	43.42	31.98	8.01	34.45	-5.54
8	5376.00	58.6 PK	74.00	-15.40	1.21H	102	53.11	31.98	8.01	34.45	-5.54.
9	10640.00	61.6 PK	74.00	-12.40	1.16H	119	43.90	39.31	12.77	34.38	-17.69
10	10640.00	50.0 AV	54.00	-4.00	1.16H	119	32.31	39.31	12.77	34.38	-17.69

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5288.00	56.0 PK	74.00	-18.00	1.56V	171	50.36	31.89	8.28	34.48	-5.69
2	5288.00	47.1 AV	54.00	-6.90	1.56V	171	41.43	31.89	8.28	34.48	-5.69
3	*5320.00	89.5 AV			1.44V	181	83.90	31.93	8.16	34.47	-5.64
4	*5320.00	97.6 PK			1.44V	181	91.99	31.93	8.16	34.47	-5.64
5	5352.00	50.3 AV	54.00	-3.70	1.56V	171	44.63	31.93	8.16	34.47	-5.63
6	5352.00	60.4 PK	74.00	-13.60	1.56V	171	54.75	31.93	8.16	34.47	-5.63.
7	5376.00	47.0 AV	54.00	-7.00	1.61V	117	41.46	31.98	8.01	34.45	-5.54
8	5376.00	56.3 PK	74.00	-17.70	1.61V	117	50.74	31.98	8.01	34.45	-5.54.
9	10640.00	50.4 AV	54.00	-3.60	1.42V	128	32.70	39.31	12.77	34.38	-17.69
10	10640.00	62.0 PK	74.00	-12.00	1.42V	128	44.32	39.31	12.77	34.38	-17.69.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5713.00	48.1 AV	54.00	-5.90	1.08H	84	42.28	32.23	8.10	34.49	-5.84
2	5713.00	56.0 PK	74.00	-18.00	1.08H	84	50.16	32.23	8.10	34.49	-5.84
3	*5745.00	95.3 PK			1.13H	96	89.36	32.26	8.22	34.50	-5.99
4	*5745.00	87.3 AV			1.13H	96	81.30	32.26	8.22	34.50	-5.99
5	5777.00	47.4 AV	54.00	-6.60	1.19H	108	41.42	32.26	8.22	34.50	-5.98
6	5777.00	55.1 PK	74.00	-18.90	1.19H	108	49.08	32.26	8.22	34.50	-5.98
7	11490.00	59.2 PK	74.00	-14.80	1.09H	94	41.73	39.80	11.90	34.20	-17.51
8	11490.00	49.0 AV	54.00	-5.00	1.09H	94	31.50	39.80	11.90	34.20	-17.50

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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5713.00	49.2 AV	54.00	-4.80	1.50V	45	43.36	32.23	8.10	34.49	-5.84
2	5713.00	57.0 PK	74.00	-17.00	1.50V	45	51.16	32.23	8.10	34.49	-5.84
3	*5745.00	88.9 AV			1.55V	38	82.92	32.26	8.22	34.50	-5.99
4	*5745.00	95.8 PK			1.55V	38	89.82	32.26	8.22	34.50	-5.99
5	5777.00	54.6 PK	74.00	-19.40	1.48V	33	48.62	32.26	8.22	34.50	-5.99
6	5777.00	47.9 AV	54.00	-6.10	1.48V	33	41.92	32.26	8.22	34.50	-5.98
7	11490.00	49.0 AV	54.00	-5.00	1.64V	53	31.46	39.80	11.90	34.20	-17.50
8	11490.00	58.9 PK	74.00	-15.10	1.64V	53	41.41	39.80	11.90	34.20	-17.50

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



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5773.00	47.5 AV	54.00	-6.50	1.58H	102	41.55	32.26	8.22	34.50	-5.98
2	5773.00	54.9 PK	74.00	-19.10	1.58H	102	48.91	32.26	8.22	34.50	-5.98.
3	*5805.00	88.0 AV			1.56H	97	81.89	32.28	8.35	34.52	-6.11.
4	*5805.00	96.8 PK			1.56H	97	90.73	32.28	8.35	34.52	-6.11.
5	5837.00	47.5 AV	54.00	-6.50	1.51H	106	41.28	32.31	8.48	34.54	-6.25
6	5837.00	57.2 PK	74.00	-16.80	1.51H	106	50.91	32.31	8.48	34.54	-6.25.
7	11610.00	59.9 PK	74.00	-14.10	1.47H	76	42.51	39.62	12.02	34.30	-17.35
8	11610.00	50.3 AV	54.00	-3.70	1.47H	76	32.91	39.62	12.02	34.30	-17.35

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5773.00	47.6 AV	54.00	-6.40	1.60V	63	41.58	32.26	8.22	34.50	-5.98
2	5773.00	55.0 PK	74.00	-19.00	1.60V	63	49.01	32.26	8.22	34.50	-5.98.
3	*5805.00	86.6 AV			1.51V	64	80.48	32.28	8.35	34.52	-6.12
4	*5805.00	95.8 PK			1.51V	64	89.73	32.28	8.35	34.52	-6.12
5	5837.00	48.0 AV	54.00	-6.00	1.57V	57	41.75	32.31	8.48	34.54	-6.25
6	5837.00	57.2 PK	74.00	-16.80	1.57V	57	50.96	32.31	8.48	34.54	-6.25.
7	11610.00	50.8 AV	54.00	-3.20	1.24V	29	33.46	39.62	12.02	34.30	-17.35
8	11610.00	60.4 PK	74.00	-13.60	1.24V	29	43.08	39.62	12.02	34.30	-17.35.

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5114.00	48.3 AV	54.00	-5.70	1.29H	110	43.28	31.72	7.85	34.55	-5.02
2	5114.00	59.0 PK	74.00	-15.00	1.29H	110	53.98	31.72	7.85	34.55	-5.02
3	*5210.00	89.6 AV			1.26H	115	84.16	31.81	8.15	34.52	-5.44
4	*5210.00	98.0 PK			1.26H	115	92.56	31.81	8.15	34.52	-5.44
5	5297.00	48.9 AV	54.00	-5.10	1.27H	112	43.21	31.89	8.28	34.48	-5.69
6	5297.00	58.8 PK	74.00	-15.20	1.27H	112	53.11	31.89	8.28	34.48	-5.69
7	10420.00	48.8 AV	54.00	-5.20	1.61H	173	32.03	39.00	12.34	34.56	-16.77
8	10420.00	59.2 PK	74.00	-14.80	1.61H	173	42.43	39.00	12.34	34.56	-16.77

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5114.00	47.2 AV	54.00	-6.80	1.06V	83	42.18	31.72	7.85	34.55	-5.02
2	5114.00	57.9 PK	74.00	-16.10	1.06V	83	52.88	31.72	7.85	34.55	-5.02
3	*5210.00	88.7 AV			1.08V	87	83.26	31.81	8.15	34.52	-5.44
4	*5210.00	98.3 PK			1.08V	87	92.86	31.81	8.15	34.52	-5.44
5	5297.00	49.4 AV	54.00	-4.60	1.07V	92	43.71	31.89	8.28	34.48	-5.69
6	5297.00	58.5 PK	74.00	-15.50	1.07V	92	52.81	31.89	8.28	34.48	-5.69
7	10420.00	49.6 AV	54.00	-4.40	1.28V	146	32.83	39.00	12.34	34.56	-16.77
8	10420.00	59.5 PK	74.00	-14.50	1.28V	146	42.71	39.00	12.34	34.56	-16.77

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5154.00	47.0 AV	54.00	-7.00	1.22H	73	41.78	31.76	8.01	34.53	-5.24
2	5154.00	56.9 PK	74.00	-17.10	1.22H	73	51.62	31.76	8.01	34.53	-5.24
3	*5250.00	88.2 AV			1.21H	70	82.66	31.85	8.22	34.50	-5.56
4	*5250.00	96.8 PK			1.21H	70	91.27	31.85	8.22	34.50	-5.56
5	10500.00	60.4 PK	74.00	-13.60	1.12H	67	42.87	39.13	12.92	34.48	-17.56
6	10500.00	49.5 AV	54.00	-4.50	1.12H	67	31.96	39.13	12.92	34.48	-17.56

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5154.00	46.4 AV	54.00	-7.60	1.64V	83	41.20	31.76	8.01	34.53	-5.24
2	5154.00	56.1 PK	74.00	-17.90	1.64V	83	50.84	31.76	8.01	34.53	-5.24
3	*5250.00	87.5 AV			1.68V	77	81.90	31.85	8.22	34.50	-5.56
4	*5250.00	95.7 PK			1.68V	77	90.13	31.85	8.22	34.50	-5.56
5	10500.00	60.8 PK	74.00	-13.20	1.47V	50	43.23	39.13	12.92	34.48	-17.56
6	10500.00	49.4 AV	54.00	-4.60	1.47V	50	31.86	39.13	12.92	34.48	-17.56

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5193.00	45.4 AV	54.00	-8.60	1.13H	73	40.00	31.81	8.15	34.52	-5.44
2	5193.00	55.7 PK	74.00	-18.30	1.13H	73	50.30	31.81	8.15	34.52	-5.44.
3	*5290.00	89.8 AV			1.09H	65	84.10	31.89	8.28	34.48	-5.69
4	*5290.00	98.6 PK			1.09H	65	92.90	31.89	8.28	34.48	-5.69
5	5388.00	44.4 AV	54.00	-9.60	1.17H	68	38.90	31.98	8.01	34.45	-5.54
6	5388.00	53.6 PK	74.00	-20.40	1.17H	68	48.10	31.98	8.01	34.45	-5.54
7	10580.00	49.1 AV	54.00	-4.90	1.37H	108	31.46	39.19	12.86	34.45	-17.60
8	10580.00	60.6 PK	74.00	-13.40	1.37H	108	43.01	39.19	12.86	34.45	-17.60.

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5290.00	87.8 AV			1.31V	64	82.13	31.89	8.28	34.48	-5.69
2	*5290.00	96.2 PK			1.31V	64	90.56	31.89	8.28	34.48	-5.69
3	5388.00	48.4 AV	54.00	-5.60	1.27V	73	42.86	31.98	8.01	34.45	-5.54
4	5388.00	57.9 PK	74.00	-16.10	1.27V	73	52.38	31.98	8.01	34.45	-5.54.
5	10580.00	49.3 AV	54.00	-4.70	1.54V	31	31.69	39.19	12.86	34.45	-17.60
6	10580.00	60.4 PK	74.00	-13.60	1.54V	29	42.75	39.19	12.86	34.45	-17.60.

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



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5760.00	85.8 AV			1.22H	38	79.80	32.26	8.22	34.50	-5.98
2	*5760.00	94.9 PK			1.22H	38	88.97	32.26	8.22	34.50	-5.98
3	11520.00	48.8 AV	54.00	-5.20	1.28H	53	31.33	39.74	11.94	34.23	-17.45
4	11520.00	60.3 PK	74.00	-13.70	1.28H	53	42.87	39.74	11.94	34.23	-17.45.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5760.00	84.5 AV			1.64V	19	78.51	32.26	8.22	34.50	-5.98
2	*5760.00	93.2 PK			1.64V	19	87.20	32.26	8.22	34.50	-5.98
3	11520.00	60.6 PK	74.00	-13.40	1.47V	75	43.12	39.74	11.94	34.23	-17.45
4	11520.00	48.9 AV	54.00	-5.10	1.47V	75	31.48	39.74	11.94	34.23	-17.45

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5800.00	83.9 AV			1.07H	19	77.80	32.28	8.35	34.52	-6.11
2	*5800.00	90.7 PK			1.07H	19	84.64	32.28	8.35	34.52	-6.11
3	11600.00	48.7 AV	54.00	-5.30	1.31H	58	31.33	39.68	11.97	34.27	-17.39
4	11600.00	59.9 PK	74.00	-14.10	1.31H	58	42.50	39.68	11.97	34.27	-17.39.

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*5800.00	91.6 PK			1.75V	33	85.50	32.28	8.35	34.52	-6.11
2	*5800.00	82.6 AV			1.75V	33	76.50	32.28	8.35	34.52	-6.11
3	11600.00	48.8 AV	54.00	-5.20	1.25V	121	31.40	39.68	11.97	34.27	-17.39
4	11600.00	59.7 PK	74.00	-14.30	1.25V	121	42.30	39.68	11.97	34.27	-17.39.

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



4.2.9 TEST RESULTS (A) (RECEIVING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	30.8 QP	43.50	-12.70	1.11H	282	19.98	9.44	1.38	0.00	-10.82
2	192.00	38.7 QP	43.50	-4.80	1.38H	268	28.36	8.95	1.39	0.00	-10.34
3	233.00	44.0 QP	46.00	-2.00	1.28H	228	31.40	10.98	1.62	0.00	-12.60
4	288.00	36.8 QP	46.00	-9.20	1.21H	318	22.08	12.88	1.83	0.00	-14.72
5	310.00	28.9 QP	46.00	-17.10	1.10H	333	13.60	13.38	1.92	0.00	-15.30
6	320.00	37.9 QP	46.00	-8.10	1.17H	131	22.30	13.62	1.98	0.00	-15.60
7	352.00	29.9 QP	46.00	-16.10	1.33H	195	13.47	14.31	2.12	0.00	-16.43
8	383.00	37.9 QP	46.00	-8.10	1.33H	110	20.25	15.50	2.15	0.00	-17.65
9	433.00	34.8 QP	46.00	-11.20	1.47H	48	16.24	16.28	2.28	0.00	-18.56
10	480.00	37.5 QP	46.00	-8.50	1.41H	148	18.15	16.92	2.43	0.00	-19.35
11	544.00	36.4 QP	46.00	-9.60	1.61H	278	15.84	17.86	2.70	0.00	-20.56
12	576.00	41.8 QP	46.00	-4.20	1.47H	3	20.73	18.28	2.79	0.00	-21.07
13	626.00	37.1 QP	46.00	-8.90	1.58H	230	15.22	18.94	2.95	0.00	-21.88
14	720.00	38.4 QP	46.00	-7.60	1.46H	149	15.44	19.68	3.28	0.00	-22.96
15	817.80	33.4 QP	46.00	-12.60	1.53H	72	9.33	20.61	3.46	0.00	-24.08

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	30.6 QP	43.50	-12.90	1.70V	156	19.83	9.44	1.38	0.00	-10.82
2	192.00	30.3 QP	43.50	-13.20	1.48V	235	19.96	8.95	1.39	0.00	-10.34
3	233.00	43.1 QP	46.00	-2.90	1.39V	331	30.50	10.98	1.62	0.00	-12.60
4	256.00	32.6 QP	46.00	-13.40	1.29V	346	18.32	12.56	1.72	0.00	-14.28
5	288.00	43.1 QP	46.00	-2.90	1.22V	207	28.38	12.88	1.83	0.00	-14.73
6	300.00	37.4 QP	46.00	-8.60	1.15V	103	22.34	13.18	1.88	0.00	-15.07
7	320.00	34.7 QP	46.00	-11.30	1.28V	49	19.10	13.62	1.98	0.00	-15.61
8	320.00	37.1 QP	46.00	-8.90	1.17V	116	21.50	13.62	1.98	0.00	-15.61
9	352.00	33.5 QP	46.00	-12.50	1.26V	314	17.07	14.31	2.12	0.00	-16.43
10	400.00	37.4 QP	46.00	-8.60	1.02V	338	19.12	16.11	2.17	0.00	-18.28
11	420.00	36.8 QP	46.00	-9.20	1.43V	230	18.35	16.21	2.24	0.00	-18.45
12	433.00	37.7 QP	46.00	-8.30	1.52V	142	19.14	16.28	2.28	0.00	-18.56
13	480.00	36.5 QP	46.00	-9.50	1.44V	60	17.15	16.92	2.43	0.00	-19.36
14	529.00	33.9 QP	46.00	-12.10	1.42V	350	13.61	17.66	2.63	0.00	-20.29
15	544.00	31.0 QP	46.00	-15.00	1.32V	250	10.44	17.86	2.70	0.00	-20.56
16	576.00	36.4 QP	46.00	-9.60	1.30V	226	15.33	18.28	2.79	0.00	-21.08
17	599.00	37.1 QP	46.00	-8.90	1.14V	159	15.64	18.61	2.85	0.00	-21.47
18	640.00	33.8 QP	46.00	-12.20	1.37V	94	11.68	19.12	3.00	0.00	-22.13
19	736.00	29.9 QP	46.00	-16.10	1.46V	62	6.66	19.93	3.31	0.00	-23.24
20	818.00	29.0 QP	46.00	-17.00	1.38V	207	4.93	20.61	3.46	0.00	-24.08
21	900.00	31.4 QP	46.00	-14.60	1.19V	308	6.93	20.80	3.66	0.00	-24.48

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	30.5 QP	43.50	-13.00	1.21H	60	19.68	9.44	1.38	0.00	-10.82
2	192.00	37.0 QP	43.50	-6.50	1.26H	150	26.66	8.95	1.39	0.00	-10.34
3	233.00	43.4 QP	46.00	-2.60	1.32H	242	30.80	10.98	1.62	0.00	-12.60
4	288.00	35.7 QP	46.00	-10.30	1.23H	3	20.98	12.88	1.83	0.00	-14.72
5	310.00	32.8 QP	46.00	-13.20	1.28H	67	17.50	13.38	1.92	0.00	-15.30
6	320.00	33.4 QP	46.00	-12.60	1.36H	87	17.80	13.62	1.98	0.00	-15.60
7	352.00	27.1 QP	46.00	-18.90	1.35H	170	10.67	14.31	2.12	0.00	-16.43
8	383.00	37.8 QP	46.00	-8.20	1.44H	250	20.15	15.50	2.15	0.00	-17.65
9	433.00	34.9 QP	46.00	-11.10	1.37H	332	16.34	16.28	2.28	0.00	-18.56
10	480.00	36.7 QP	46.00	-9.30	1.21H	275	17.35	16.92	2.43	0.00	-19.36
11	544.00	37.1 QP	46.00	-8.90	1.28H	92	16.54	17.86	2.70	0.00	-20.57
12	576.00	40.9 QP	46.00	-5.10	1.43H	93	19.83	18.28	2.79	0.00	-21.07
13	626.00	37.3 QP	46.00	-8.70	1.31H	177	15.42	18.94	2.95	0.00	-21.89
14	720.00	37.9 QP	46.00	-8.10	1.39H	296	14.94	19.68	3.28	0.00	-22.97
15	817.80	33.0 QP	46.00	-13.00	1.17H	248	8.93	20.61	3.46	0.00	-24.08

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	32.0 QP	43.50	-11.50	1.12V	232	21.18	9.44	1.38	0.00	-10.82
2	192.00	28.9 QP	43.50	-14.60	1.23V	324	18.56	8.95	1.39	0.00	-10.34
3	233.00	43.2 QP	46.00	-2.80	1.37V	113	30.60	10.98	1.62	0.00	-12.60
4	256.00	32.2 QP	46.00	-13.80	1.37V	228	17.92	12.56	1.72	0.00	-14.28
5	288.00	34.5 QP	46.00	-11.50	1.26V	82	19.78	12.88	1.83	0.00	-14.73
6	300.00	33.7 QP	46.00	-12.30	1.19V	166	18.64	13.18	1.88	0.00	-15.06
7	300.00	36.0 QP	46.00	-10.00	1.34V	1	20.94	13.18	1.88	0.00	-15.06
8	320.00	36.1 QP	46.00	-9.90	1.09V	217	20.50	13.62	1.98	0.00	-15.61
9	352.00	33.2 QP	46.00	-12.80	1.04V	121	16.77	14.31	2.12	0.00	-16.43
10	400.00	38.1 QP	46.00	-7.90	1.10V	154	19.82	16.11	2.17	0.00	-18.28
11	420.00	36.2 QP	46.00	-9.80	1.23V	250	17.75	16.21	2.24	0.00	-18.45
12	433.00	39.4 QP	46.00	-6.60	1.36V	347	20.84	16.28	2.28	0.00	-18.56
13	480.00	35.8 QP	46.00	-10.20	1.51V	276	16.45	16.92	2.43	0.00	-19.35
14	529.00	33.9 QP	46.00	-12.10	1.58V	162	13.61	17.66	2.63	0.00	-20.29
15	544.00	31.5 QP	46.00	-14.50	1.39V	46	10.94	17.86	2.70	0.00	-20.57
16	576.00	36.4 QP	46.00	-9.60	1.39V	117	15.33	18.28	2.79	0.00	-21.08
17	599.00	37.1 QP	46.00	-8.90	1.31V	211	15.64	18.61	2.85	0.00	-21.47
18	640.00	31.0 QP	46.00	-15.00	1.31V	279	8.88	19.12	3.00	0.00	-22.13
19	736.00	28.9 QP	46.00	-17.10	1.37V	351	5.66	19.93	3.31	0.00	-23.25
20	818.00	32.3 QP	46.00	-13.70	1.43V	309	8.23	20.61	3.46	0.00	-24.08
21	900.00	30.5 QP	46.00	-15.50	1.25V	216	6.03	20.80	3.66	0.00	-24.48

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4144.00	34.3 AV	54.00	-19.70	1.17H	248	31.80	30.32	6.70	34.56	-2.46
2	4144.00	44.6 PK	74.00	-29.40	1.17H	248	42.13	30.32	6.70	34.56	-2.47

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4144.00	34.4 AV	54.00	-19.60	1.39V	329	31.98	30.32	6.70	34.56	-2.46
2	4144.00	45.9 PK	74.00	-28.10	1.39V	329	43.42	30.32	6.70	34.56	-2.47

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4192.00	33.7 AV	54.00	-20.30	1.50H	151	31.20	30.41	6.68	34.58	-2.51
2	4192.00	44.9 PK	74.00	-29.10	1.50H	151	42.40	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4192.00	33.1 AV	54.00	-20.90	1.21V	226	30.54	30.41	6.68	34.58	-2.51
2	4192.00	44.2 PK	74.00	-29.80	1.21V	226	41.70	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4208.00	32.6 AV	54.00	-21.40	1.28H	178	30.10	30.41	6.68	34.58	-2.51
2	4208.00	44.0 PK	74.00	-30.00	1.28H	178	41.50	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4208.00	34.2 AV	54.00	-19.80	1.48V	297	31.70	30.41	6.68	34.58	-2.51
2	4208.00	45.4 PK	74.00	-28.60	1.48V	297	42.84	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4256.00	33.0 AV	54.00	-21.00	1.34H	33	30.30	30.60	6.75	34.61	-2.74
2	4256.00	44.6 PK	74.00	-29.40	1.34H	33	41.90	30.60	6.75	34.61	-2.74

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4256.00	34.3 AV	54.00	-19.70	1.65V	92	31.60	30.60	6.75	34.61	-2.74
2	4256.00	45.4 PK	74.00	-28.60	1.65V	92	42.70	30.60	6.75	34.61	-2.74

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4596.00	35.0 AV	54.00	-19.00	1.54H	96	30.80	31.21	7.64	34.68	-4.17
2	4596.00	46.7 PK	74.00	-27.30	1.54H	96	42.50	31.21	7.64	34.68	-4.18

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4596.00	35.4 AV	54.00	-18.60	1.76V	176	31.26	31.21	7.64	34.68	-4.17
2	4596.00	47.5 PK	74.00	-26.50	1.76V	176	43.28	31.21	7.64	34.68	-4.18

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4644.00	34.3 AV	54.00	-19.70	1.34H	155	30.20	31.26	7.54	34.67	-4.12
2	4644.00	45.7 PK	74.00	-28.30	1.34H	155	41.60	31.26	7.54	34.67	-4.12

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4644.00	46.1 PK	74.00	-27.90	1.47V	279	41.99	31.26	7.54	34.67	-4.12
2	4644.00	35.3 AV	54.00	-18.70	1.47V	279	31.20	31.26	7.54	34.67	-4.12

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4168.00	33.9 AV	54.00	-20.10	1.37H	279	31.35	30.41	6.68	34.58	-2.51
2	4168.00	45.4 PK	74.00	-28.60	1.37H	279	42.90	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4168.00	34.0 AV	54.00	-20.00	1.13V	208	31.50	30.41	6.68	34.58	-2.51
2	4168.00	44.8 PK	74.00	-29.20	1.13V	208	42.30	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4200.00	45.6 PK	74.00	-28.40	1.20H	109	43.10	30.41	6.68	34.58	-2.51
2	4200.00	34.3 AV	54.00	-19.70	1.20H	109	31.74	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4200.00	33.6 AV	54.00	-20.40	1.37V	173	31.06	30.41	6.68	34.58	-2.51
2	4200.00	44.9 PK	74.00	-29.10	1.37V	173	42.43	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4232.00	33.9 AV	54.00	-20.10	1.14H	116	31.26	30.51	6.70	34.59	-2.62
2	4232.00	45.3 PK	74.00	-28.70	1.14H	116	42.73	30.51	6.70	34.59	-2.62

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4232.00	45.9 PK	74.00	-28.10	1.51V	261	43.24	30.51	6.70	34.59	-2.62
2	4232.00	34.2 AV	54.00	-19.80	1.51V	261	31.58	30.51	6.70	34.59	-2.62

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4608.00	35.4 AV	54.00	-18.60	1.69H	34	31.20	31.21	7.64	34.68	-4.17
2	4608.00	46.8 PK	74.00	-27.20	1.69H	34	42.64	31.21	7.64	34.68	-4.18

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4608.00	46.3 PK	74.00	-27.70	1.04V	85	42.08	31.21	7.64	34.68	-4.17
2	4608.00	35.0 AV	54.00	-19.00	1.04V	85	30.87	31.21	7.64	34.68	-4.17

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4640.00	34.9 AV	54.00	-19.10	1.69H	195	30.80	31.26	7.54	34.67	-4.12
2	4640.00	46.1 PK	74.00	-27.90	1.69H	195	41.96	31.26	7.54	34.67	-4.12

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4640.00	34.5 AV	54.00	-19.50	1.48V	134	30.36	31.26	7.54	34.67	-4.12
2	4640.00	46.0 PK	74.00	-28.00	1.48V	134	41.86	31.26	7.54	34.67	-4.12

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

4.2.10 TEST RESULTS (B) (RECEIVING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	34.1 QP	43.50	-9.40	1.18H	185	23.28	9.44	1.38	0.00	-10.82
2	192.00	29.7 QP	43.50	-13.80	1.20H	47	19.36	8.95	1.39	0.00	-10.34
3	224.00	35.1 QP	46.00	-10.90	1.21H	112	23.14	10.41	1.56	0.00	-11.96
4	233.00	41.8 QP	46.00	-4.20	1.00H	62	29.24	10.98	1.62	0.00	-12.61
5	288.00	36.8 QP	46.00	-9.20	1.18H	87	22.08	12.88	1.83	0.00	-14.73
6	297.00	43.1 QP	46.00	-2.90	1.25H	299	28.11	13.12	1.87	0.00	-15.00
7	300.00	38.6 QP	46.00	-7.40	1.33H	259	23.50	13.18	1.88	0.00	-15.07
8	320.00	43.1 QP	46.00	-2.90	1.90H	239	27.50	13.62	1.98	0.00	-15.61
9	384.00	28.7 QP	46.00	-17.30	1.10H	184	11.05	15.50	2.15	0.00	-17.65
10	400.00	41.9 QP	46.00	-4.10	1.04H	175	23.62	16.11	2.17	0.00	-18.29
11	431.73	39.8 QP	46.00	-6.20	1.82H	196	21.20	16.28	2.28	0.00	-18.57
12	480.00	35.5 QP	46.00	-10.50	1.16H	107	16.15	16.92	2.43	0.00	-19.35
13	544.00	37.6 QP	46.00	-8.40	1.70H	90	17.04	17.86	2.70	0.00	-20.56
14	576.00	37.1 QP	46.00	-8.90	1.99H	161	16.03	18.28	2.79	0.00	-21.07
15	597.00	43.6 QP	46.00	-2.40	1.51H	9	22.18	18.58	2.84	0.00	-21.42
16	672.00	32.5 QP	46.00	-13.50	1.51H	31	10.15	19.27	3.13	0.00	-22.40
17	720.00	36.0 QP	46.00	-10.00	1.08H	9	13.00	19.68	3.28	0.00	-22.97

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.

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	36.4 QP	43.50	-7.10	1.51V	183	25.58	9.44	1.38	0.00	-10.82
2	192.00	29.1 QP	43.50	-14.40	1.25V	212	18.76	8.95	1.39	0.00	-10.34
3	224.00	33.5 QP	46.00	-12.50	1.62V	135	21.54	10.41	1.56	0.00	-11.96
4	233.00	43.8 QP	46.00	-2.20	1.78V	68	31.20	10.98	1.62	0.00	-12.61
5	256.00	30.5 QP	46.00	-15.50	1.69V	43	16.22	12.56	1.72	0.00	-14.29
6	300.00	41.1 QP	46.00	-4.90	1.45V	109	26.04	13.18	1.88	0.00	-15.07
7	320.00	39.0 QP	46.00	-7.00	1.31V	226	23.36	13.62	1.98	0.00	-15.61
8	352.00	31.4 QP	46.00	-14.60	1.07V	34	14.97	14.31	2.12	0.00	-16.44
9	384.00	37.2 QP	46.00	-8.80	1.05V	3	19.55	15.50	2.15	0.00	-17.66
10	400.00	39.5 QP	46.00	-6.50	1.44V	203	21.22	16.11	2.17	0.00	-18.29
11	416.00	35.8 QP	46.00	-10.20	1.08V	298	17.39	16.18	2.22	0.00	-18.41
12	448.00	29.4 QP	46.00	-16.60	1.00V	117	10.76	16.35	2.33	0.00	-18.68
13	480.00	38.8 QP	46.00	-7.20	1.00V	292	19.41	16.92	2.43	0.00	-19.36
14	527.60	36.9 QP	46.00	-9.10	1.46V	5	16.66	17.62	2.62	0.00	-20.24
15	544.00	31.9 QP	46.00	-14.10	1.51V	125	11.39	17.86	2.70	0.00	-20.56
16	576.00	36.5 QP	46.00	-9.50	1.47V	73	15.43	18.28	2.79	0.00	-21.07
17	597.00	43.7 QP	46.00	-2.30	1.17V	118	22.28	18.58	2.84	0.00	-21.43
18	720.00	30.8 QP	46.00	-15.20	1.58V	115	7.83	19.68	3.28	0.00	-22.97
19	800.00	30.1 QP	46.00	-15.90	1.43V	4	6.04	20.69	3.38	0.00	-24.07
20	818.00	31.4 QP	46.00	-14.60	1.08V	125	7.30	20.61	3.46	0.00	-24.08
21	960.00	29.4 QP	46.00	-16.60	1.40V	92	4.34	21.24	3.82	0.00	-25.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	35.1 QP	43.50	-8.40	1.16H	225	24.28	9.44	1.38	0.00	-10.82
2	192.00	28.8 QP	43.50	-14.70	1.29H	311	18.46	8.95	1.39	0.00	-10.34
3	224.00	36.3 QP	46.00	-9.70	1.15H	317	24.34	10.41	1.56	0.00	-11.96
4	233.00	41.4 QP	46.00	-4.60	1.02H	151	28.80	10.98	1.62	0.00	-12.60
5	288.00	37.4 QP	46.00	-8.60	1.14H	45	22.68	12.88	1.83	0.00	-14.72
6	297.00	43.0 QP	46.00	-3.00	1.26H	143	28.01	13.12	1.87	0.00	-14.99
7	300.00	38.8 QP	46.00	-7.20	1.37H	332	23.74	13.18	1.88	0.00	-15.06
8	320.00	42.5 QP	46.00	-3.50	1.82H	288	26.90	13.62	1.98	0.00	-15.60
9	384.00	27.6 QP	46.00	-18.40	1.14H	141	9.95	15.50	2.15	0.00	-17.65
10	400.00	41.0 QP	46.00	-5.00	1.56H	43	22.72	16.11	2.17	0.00	-18.29
11	431.73	41.0 QP	46.00	-5.00	1.84H	84	22.44	16.28	2.28	0.00	-18.57
12	480.00	34.1 QP	46.00	-11.90	1.28H	190	14.75	16.92	2.43	0.00	-19.35
13	544.00	37.2 QP	46.00	-8.80	1.61H	340	16.64	17.86	2.70	0.00	-20.57
14	576.00	38.3 QP	46.00	-7.70	1.31H	320	17.23	18.28	2.79	0.00	-21.07
15	597.00	43.0 QP	46.00	-3.00	1.60H	205	21.58	18.58	2.84	0.00	-21.43
16	672.00	30.2 QP	46.00	-15.80	1.57H	109	7.81	19.27	3.13	0.00	-22.40
17	720.00	35.7 QP	46.00	-10.30	1.19H	83	12.74	19.68	3.28	0.00	-22.97

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.

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	36.8 QP	43.50	-6.70	1.27V	296	25.98	9.44	1.38	0.00	-10.82
2	192.00	29.9 QP	43.50	-13.60	1.34V	233	19.56	8.95	1.39	0.00	-10.34
3	224.00	32.4 QP	46.00	-13.60	1.47V	138	20.44	10.41	1.56	0.00	-11.96
4	233.00	43.9 QP	46.00	-2.10	1.74V	33	31.30	10.98	1.62	0.00	-12.61
5	256.00	30.0 QP	46.00	-16.00	1.55V	67	15.72	12.56	1.72	0.00	-14.29
6	300.00	41.1 QP	46.00	-4.90	1.47V	137	26.04	13.18	1.88	0.00	-15.07
7	320.00	40.0 QP	46.00	-6.00	1.31V	277	24.40	13.62	1.98	0.00	-15.61
8	352.00	30.1 QP	46.00	-15.90	1.18V	3	13.67	14.31	2.12	0.00	-16.43
9	384.00	37.4 QP	46.00	-8.60	1.08V	266	19.75	15.50	2.15	0.00	-17.65
10	400.00	40.2 QP	46.00	-5.80	1.17V	191	21.92	16.11	2.17	0.00	-18.28
11	416.00	36.9 QP	46.00	-9.10	1.27V	109	18.49	16.18	2.22	0.00	-18.41
12	448.00	30.3 QP	46.00	-15.70	1.03V	14	11.62	16.35	2.33	0.00	-18.68
13	480.00	39.5 QP	46.00	-6.50	1.05V	149	20.15	16.92	2.43	0.00	-19.35
14	527.60	36.1 QP	46.00	-9.90	1.50V	351	15.86	17.62	2.62	0.00	-20.24
15	544.00	32.2 QP	46.00	-13.80	1.55V	263	11.64	17.86	2.70	0.00	-20.56
16	576.00	37.1 QP	46.00	-8.90	1.45V	175	16.03	18.28	2.79	0.00	-21.08
17	597.00	43.5 QP	46.00	-2.50	1.20V	68	22.08	18.58	2.84	0.00	-21.43
18	720.00	33.0 QP	46.00	-13.00	1.47V	27	10.04	19.68	3.28	0.00	-22.97
19	800.00	30.8 QP	46.00	-15.20	1.50V	144	6.74	20.69	3.38	0.00	-24.07
20	818.00	31.0 QP	46.00	-15.00	1.16V	219	6.93	20.61	3.46	0.00	-24.08
21	960.00	30.0 QP	46.00	-16.00	1.34V	303	4.94	21.24	3.82	0.00	-25.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4144.00	34.3 AV	54.00	-19.70	1.13H	16	31.80	30.32	6.70	34.56	-2.46
2	4144.00	45.4 PK	74.00	-28.60	1.13H	16	42.96	30.32	6.70	34.56	-2.47

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4144.00	33.7 AV	54.00	-20.30	1.41V	72	31.25	30.32	6.70	34.56	-2.46
2	4144.00	44.5 PK	74.00	-29.50	1.41V	72	42.09	30.32	6.70	34.56	-2.47

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4192.00	46.0 PK	74.00	-28.00	1.22H	297	43.45	30.41	6.68	34.58	-2.51
2	4192.00	34.4 AV	54.00	-19.60	1.22H	297	31.84	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4192.00	34.4 AV	54.00	-19.60	1.51V	175	31.84	30.41	6.68	34.58	-2.51
2	4192.00	45.3 PK	74.00	-28.70	1.51V	175	42.75	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4208.00	41.8 PK	74.00	-32.20	1.43H	122	39.27	30.41	6.68	34.58	-2.51
2	4208.00	30.6 AV	54.00	-23.40	1.43H	122	28.05	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4208.00	31.0 AV	54.00	-23.00	1.20V	34	28.49	30.41	6.68	34.58	-2.51
2	4208.00	42.4 PK	74.00	-31.60	1.20V	34	39.89	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4256.00	30.9 AV	54.00	-23.10	1.68H	127	28.12	30.60	6.75	34.61	-2.74
2	4256.00	42.3 PK	74.00	-31.70	1.68H	127	39.56	30.60	6.75	34.61	-2.74

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4256.00	30.1 AV	54.00	-23.90	1.13V	249	27.34	30.60	6.75	34.61	-2.74
2	4256.00	41.4 PK	74.00	-32.60	1.13V	249	38.61	30.60	6.75	34.61	-2.74

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4596.00	30.9 AV	54.00	-23.10	1.10H	53	26.71	31.21	7.64	34.68	-4.17
2	4596.00	42.9 PK	74.00	-31.10	1.10H	53	38.68	31.21	7.64	34.68	-4.17

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4596.00	31.5 AV	54.00	-22.50	1.43V	180	27.36	31.21	7.64	34.68	-4.17
2	4596.00	43.5 PK	74.00	-30.50	1.43V	180	39.31	31.21	7.64	34.68	-4.17

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4644.00	34.4 AV	54.00	-19.60	1.70H	322	30.28	31.26	7.54	34.67	-4.12
2	4644.00	44.9 PK	74.00	-29.10	1.70H	322	40.73	31.26	7.54	34.67	-4.12

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4644.00	32.3 AV	54.00	-21.70	1.36V	165	28.18	31.26	7.54	34.67	-4.12
2	4644.00	43.6 PK	74.00	-30.40	1.36V	165	39.46	31.26	7.54	34.67	-4.12

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4168.00	33.3 AV	54.00	-20.70	1.48H	152	30.75	30.41	6.68	34.58	-2.51
2	4168.00	43.9 PK	74.00	-30.10	1.48H	152	41.36	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4168.00	33.8 AV	54.00	-20.20	1.05V	195	31.33	30.41	6.68	34.58	-2.51
2	4168.00	45.0 PK	74.00	-29.00	1.05V	195	42.49	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4200.00	33.4 AV	54.00	-20.60	1.49H	323	30.88	30.41	6.68	34.58	-2.51
2	4200.00	44.8 PK	74.00	-29.20	1.49H	323	42.30	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4200.00	33.3 AV	54.00	-20.70	1.22V	135	30.80	30.41	6.68	34.58	-2.51
2	4200.00	44.1 PK	74.00	-29.90	1.22V	135	41.56	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4232.00	34.2 AV	54.00	-19.80	1.38H	155	31.54	30.51	6.70	34.59	-2.62
2	4232.00	45.6 PK	74.00	-28.40	1.38H	155	42.95	30.51	6.70	34.59	-2.62

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4232.00	33.3 AV	54.00	-20.70	1.19V	234	30.71	30.51	6.70	34.59	-2.62
2	4232.00	44.5 PK	74.00	-29.50	1.19V	234	41.87	30.51	6.70	34.59	-2.62

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4608.00	35.8 AV	54.00	-18.20	1.22H	95	31.63	31.21	7.64	34.68	-4.17
2	4608.00	46.9 PK	74.00	-27.10	1.22H	95	42.72	31.21	7.64	34.68	-4.18

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4608.00	35.6 AV	54.00	-18.40	1.52V	20	31.38	31.21	7.64	34.68	-4.17
2	4608.00	46.5 PK	74.00	-27.50	1.52V	20	42.28	31.21	7.64	34.68	-4.18

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4640.00	35.4 AV	54.00	-18.60	1.65H	203	31.23	31.26	7.54	34.67	-4.12
2	4640.00	46.6 PK	74.00	-27.40	1.65H	203	42.48	31.26	7.54	34.67	-4.12

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4640.00	35.8 AV	54.00	-18.20	1.45V	116	31.68	31.26	7.54	34.67	-4.12
2	4640.00	47.4 PK	74.00	-26.60	1.45V	116	43.23	31.26	7.54	34.67	-4.12

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



4.2.11 TEST RESULTS (C) (RECEIVING)

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	38.4 QP	43.50	-5.10	1.23H	186	27.58	9.44	1.38	0.00	-10.82
2	233.00	42.7 QP	46.00	-3.30	1.12H	58	30.10	10.98	1.62	0.00	-12.60
3	241.00	32.0 QP	46.00	-14.00	1.54H	214	18.92	11.41	1.67	0.00	-13.08
4	288.00	41.6 QP	46.00	-4.40	1.73H	317	26.88	12.88	1.83	0.00	-14.73
5	297.00	42.9 QP	46.00	-3.10	1.49H	331	27.91	13.12	1.87	0.00	-15.00
6	320.00	32.5 QP	46.00	-13.50	1.57H	225	16.90	13.62	1.98	0.00	-15.60
7	400.00	41.1 QP	46.00	-4.90	1.36H	148	22.82	16.11	2.17	0.00	-18.28
8	431.00	39.4 QP	46.00	-6.60	1.19H	61	20.86	16.26	2.27	0.00	-18.55
9	480.00	30.5 QP	46.00	-15.50	1.37H	81	11.15	16.92	2.43	0.00	-19.35
10	500.00	33.7 QP	46.00	-12.30	1.74H	192	13.95	17.26	2.49	0.00	-19.75
11	528.00	37.0 QP	46.00	-9.00	1.37H	275	16.76	17.62	2.62	0.00	-20.25
12	544.00	37.6 QP	46.00	-8.40	1.20H	349	17.04	17.86	2.70	0.00	-20.57
13	551.00	38.5 QP	46.00	-7.50	1.04H	327	17.81	17.96	2.73	0.00	-20.70
14	576.00	38.5 QP	46.00	-7.50	1.70H	208	17.43	18.28	2.79	0.00	-21.07
15	597.00	43.4 QP	46.00	-2.60	1.48H	162	21.98	18.58	2.84	0.00	-21.43
16	720.00	36.7 QP	46.00	-9.30	1.26H	248	13.74	19.68	3.28	0.00	-22.97
17	800.00	34.1 QP	46.00	-11.90	1.13H	317	10.04	20.69	3.38	0.00	-24.06

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.

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	37.5 QP	43.50	-6.00	1.09V	91	26.68	9.44	1.38	0.00	-10.82
2	192.00	30.2 QP	43.50	-13.30	1.18V	168	19.86	8.95	1.39	0.00	-10.34
3	233.00	43.8 QP	46.00	-2.20	1.83V	309	31.20	10.98	1.62	0.00	-12.60
4	256.00	31.0 QP	46.00	-15.00	1.62V	349	16.72	12.56	1.72	0.00	-14.28
5	288.00	37.4 QP	46.00	-8.60	1.52V	262	22.68	12.88	1.83	0.00	-14.73
6	300.00	42.3 QP	46.00	-3.70	1.27V	115	27.24	13.18	1.88	0.00	-15.07
7	320.00	34.0 QP	46.00	-12.00	1.38V	50	18.40	13.62	1.98	0.00	-15.61
8	352.00	30.8 QP	46.00	-15.20	1.08V	169	14.37	14.31	2.12	0.00	-16.43
9	384.00	37.0 QP	46.00	-9.00	1.09V	282	19.35	15.50	2.15	0.00	-17.65
10	400.00	36.0 QP	46.00	-10.00	1.30V	357	17.72	16.11	2.17	0.00	-18.28
11	416.00	30.9 QP	46.00	-15.10	1.08V	316	12.49	16.18	2.22	0.00	-18.41
12	431.70	41.5 QP	46.00	-4.50	1.09V	180	22.94	16.28	2.28	0.00	-18.56
13	480.00	34.9 QP	46.00	-11.10	1.25V	64	15.55	16.92	2.43	0.00	-19.35
14	512.00	32.0 QP	46.00	-14.00	1.48V	80	12.03	17.42	2.55	0.00	-19.97
15	544.00	34.1 QP	46.00	-11.90	1.54V	179	13.54	17.86	2.70	0.00	-20.56
16	576.00	33.7 QP	46.00	-12.30	1.71V	291	12.63	18.28	2.79	0.00	-21.07
17	597.00	43.5 QP	46.00	-2.50	1.52V	306	22.08	18.58	2.84	0.00	-21.43
18	640.00	29.1 QP	46.00	-16.90	1.44V	161	6.98	19.12	3.00	0.00	-22.13
19	720.00	33.3 QP	46.00	-12.70	1.11V	68	10.34	19.68	3.28	0.00	-22.97
20	800.00	27.6 QP	46.00	-18.40	1.06V	64	3.54	20.69	3.38	0.00	-24.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	40.0 QP	43.50	-3.50	1.30H	162	29.18	9.44	1.38	0.00	-10.82
2	233.00	42.9 QP	46.00	-3.10	1.00H	31	30.28	10.98	1.62	0.00	-12.60
3	241.00	32.6 QP	46.00	-13.40	1.75H	194	19.50	11.41	1.67	0.00	-13.08
4	288.00	40.0 QP	46.00	-6.00	1.36H	227	25.28	12.88	1.83	0.00	-14.73
5	297.00	42.3 QP	46.00	-3.70	1.55H	117	27.31	13.12	1.87	0.00	-15.00
6	320.00	32.0 QP	46.00	-14.00	1.22H	120	16.40	13.62	1.98	0.00	-15.60
7	400.00	40.5 QP	46.00	-5.50	1.01H	3	22.22	16.11	2.17	0.00	-18.28
8	431.69	39.0 QP	46.00	-7.00	1.74H	121	20.44	16.28	2.28	0.00	-18.56
9	480.00	31.8 QP	46.00	-14.20	1.07H	68	12.49	16.92	2.43	0.00	-19.35
10	500.00	32.6 QP	46.00	-13.40	1.86H	121	12.85	17.26	2.49	0.00	-19.75
11	528.00	37.8 QP	46.00	-8.20	1.72H	117	17.52	17.62	2.62	0.00	-20.25
12	544.00	37.3 QP	46.00	-8.70	1.79H	101	16.78	17.86	2.70	0.00	-20.57
13	551.60	37.9 QP	46.00	-8.10	1.97H	32	17.18	17.96	2.73	0.00	-20.70
14	576.00	36.1 QP	46.00	-9.90	2.36H	50	15.03	18.28	2.79	0.00	-21.08
15	597.00	44.0 QP	46.00	-2.00	1.31H	32	22.58	18.58	2.84	0.00	-21.43
16	720.00	35.0 QP	46.00	-11.00	1.30H	350	12.05	19.68	3.28	0.00	-22.96
17	800.00	35.6 QP	46.00	-10.40	1.36H	3	11.54	20.69	3.38	0.00	-24.06

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION	Quasi-Peak
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	166.00	37.8 QP	43.50	-5.70	1.02V	250	26.98	9.44	1.38	0.00	-10.82
2	192.00	29.9 QP	43.50	-13.60	1.07V	117	19.56	8.95	1.39	0.00	-10.34
3	233.00	43.9 QP	46.00	-2.10	2.03V	56	31.30	10.98	1.62	0.00	-12.60
4	256.00	31.4 QP	46.00	-14.60	1.74V	239	17.12	12.56	1.72	0.00	-14.28
5	288.00	38.0 QP	46.00	-8.00	1.53V	88	23.27	12.88	1.83	0.00	-14.72
6	300.00	42.2 QP	46.00	-3.80	1.27V	107	27.14	13.18	1.88	0.00	-15.07
7	320.00	34.3 QP	46.00	-11.70	1.36V	183	18.73	13.62	1.98	0.00	-15.60
8	352.00	30.0 QP	46.00	-16.00	1.05V	262	13.57	14.31	2.12	0.00	-16.43
9	384.00	37.2 QP	46.00	-8.80	1.01V	36	19.55	15.50	2.15	0.00	-17.65
10	400.00	36.0 QP	46.00	-10.00	1.33V	36	17.72	16.11	2.17	0.00	-18.28
11	416.00	30.3 QP	46.00	-15.70	1.06V	125	11.92	16.18	2.22	0.00	-18.41
12	431.70	42.8 QP	46.00	-3.20	1.04V	169	24.24	16.28	2.28	0.00	-18.56
13	480.00	35.6 QP	46.00	-10.40	1.36V	31	16.25	16.92	2.43	0.00	-19.35
14	512.00	32.3 QP	46.00	-13.70	1.56V	94	12.33	17.42	2.55	0.00	-19.97
15	544.00	33.4 QP	46.00	-12.60	1.48V	3	12.80	17.86	2.70	0.00	-20.56
16	576.00	34.5 QP	46.00	-11.50	1.74V	233	13.43	18.28	2.79	0.00	-21.07
17	597.00	44.0 QP	46.00	-2.00	1.40V	129	22.58	18.58	2.84	0.00	-21.43
18	640.00	28.1 QP	46.00	-17.90	1.67V	299	5.98	19.12	3.00	0.00	-22.13
19	720.00	32.5 QP	46.00	-13.50	1.08V	32	9.54	19.68	3.28	0.00	-22.96
20	800.00	28.9 QP	46.00	-17.10	1.10V	185	4.84	20.69	3.38	0.00	-24.07

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.



EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4144.00	45.2 PK	74.00	-28.80	1.22H	156	42.72	30.32	6.70	34.56	-2.46
2	4144.00	34.5 AV	54.00	-19.50	1.22H	156	32.00	30.32	6.70	34.56	-2.46

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4144.00	34.3 AV	54.00	-19.70	1.48V	321	31.89	30.32	6.70	34.56	-2.46
2	4144.00	44.8 PK	74.00	-29.20	1.48V	321	42.30	30.32	6.70	34.56	-2.47

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4192.00	45.9 PK	74.00	-28.10	1.34H	351	43.40	30.41	6.68	34.58	-2.51
2	4192.00	34.6 AV	54.00	-19.40	1.34H	351	32.10	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4192.00	33.9 AV	54.00	-20.10	1.49V	280	31.43	30.41	6.68	34.58	-2.51
2	4192.00	44.8 PK	74.00	-29.20	1.49V	280	42.31	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4208.00	45.9 PK	74.00	-28.10	1.63H	66	43.40	30.41	6.68	34.58	-2.51
2	4208.00	34.6 AV	54.00	-19.40	1.63H	66	32.08	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4208.00	34.4 AV	54.00	-19.60	1.09V	215	31.84	30.41	6.68	34.58	-2.51
2	4208.00	45.2 PK	74.00	-28.80	1.09V	215	42.73	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4256.00	34.9 AV	54.00	-19.10	1.16V	22	32.14	30.60	6.75	34.61	-2.74
2	4256.00	45.6 PK	74.00	-28.40	1.16V	22	42.82	30.60	6.75	34.61	-2.74

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4256.00	33.9 AV	54.00	-20.10	1.52V	104	31.20	30.60	6.75	34.61	-2.74
2	4256.00	45.4 PK	74.00	-28.60	1.52V	104	42.70	30.60	6.75	34.61	-2.74

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4596.00	47.2 PK	74.00	-26.80	1.11H	243	43.00	31.21	7.64	34.68	-4.17
2	4596.00	37.0 AV	54.00	-17.00	1.11H	243	32.81	31.21	7.64	34.68	-4.17

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4596.00	35.6 AV	54.00	-18.40	1.54V	180	31.42	31.21	7.64	34.68	-4.17
2	4596.00	46.3 PK	74.00	-27.70	1.54V	180	42.09	31.21	7.64	34.68	-4.18

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal Mode	CHANNEL	12
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4644.00	35.8 AV	54.00	-18.20	1.05H	152	31.63	31.26	7.54	34.67	-4.12
2	4644.00	46.9 PK	74.00	-27.10	1.05H	152	42.73	31.26	7.54	34.67	-4.12

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4644.00	46.3 PK	74.00	-27.70	1.44V	331	42.20	31.26	7.54	34.67	-4.12
2	4644.00	35.2 AV	54.00	-18.80	1.44V	331	31.10	31.26	7.54	34.67	-4.12

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4168.00	34.2 AV	54.00	-19.80	1.36H	151	31.68	30.41	6.68	34.58	-2.51
2	4168.00	45.4 PK	74.00	-28.60	1.36H	151	42.87	30.41	6.68	34.58	-2.51

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4168.00	34.1 AV	54.00	-19.90	1.58V	87	31.59	30.41	6.68	34.58	-2.51
2	4168.00	45.5 PK	74.00	-28.50	1.58V	87	43.00	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	5154.00	47.0 AV	54.00	-7.00	1.22H	73	41.78	31.76	8.01	34.53	-5.24
2	5154.00	56.9 PK	74.00	-17.10	1.22H	73	51.62	31.76	8.01	34.53	-5.24

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4200.00	34.5 AV	54.00	-19.50	1.15V	201	32.00	30.41	6.68	34.58	-2.51
2	4200.00	46.3 PK	74.00	-27.70	1.15V	201	43.80	30.41	6.68	34.58	-2.51

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4232.00	34.3 AV	54.00	-19.70	1.13H	165	31.68	30.51	6.70	34.59	-2.62
2	4232.00	45.5 PK	74.00	-28.50	1.13H	165	42.87	30.51	6.70	34.59	-2.62

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4232.00	33.2 AV	54.00	-20.80	1.60V	74	30.60	30.51	6.70	34.59	-2.62
2	4232.00	44.8 PK	74.00	-29.20	1.60V	74	42.15	30.51	6.70	34.59	-2.62

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4608.00	35.2 AV	54.00	-18.80	1.38H	253	31.00	31.21	7.64	34.68	-4.17
2	4608.00	46.5 PK	74.00	-27.50	1.38H	253	42.34	31.21	7.64	34.68	-4.18

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4608.00	34.5 AV	54.00	-19.50	1.53V	199	30.28	31.21	7.64	34.68	-4.17
2	4608.00	45.9 PK	74.00	-28.10	1.53V	199	41.75	31.21	7.64	34.68	-4.18

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	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 80%RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4640.00	34.4 AV	54.00	-19.60	1.51H	207	30.30	31.26	7.54	34.67	-4.12
2	4640.00	45.7 PK	74.00	-28.30	1.51H	207	41.56	31.26	7.54	34.67	-4.12

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)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	4640.00	34.6 AV	54.00	-19.40	1.12V	136	30.50	31.26	7.54	34.67	-4.12
2	4640.00	45.7 PK	74.00	-28.30	1.12V	136	41.60	31.26	7.54	34.67	-4.12

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



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 26 dB emission bandwidth in MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE&SCHWARZ SINGLE CHANNEL POWER METER	NRVS	100026	Mar. 21, 2003
ROHDE&SCHWARZ PEAK POWER METER CHANNEL POWER METER	NRV-Z32	100013	Mar. 21, 2003

NOTE:

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

4.3.3 TEST PROCEDURE

The transmitter output was connected to the peak power sensor.

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 specific channel frequencies individually.



4.3.6 TEST RESULTS

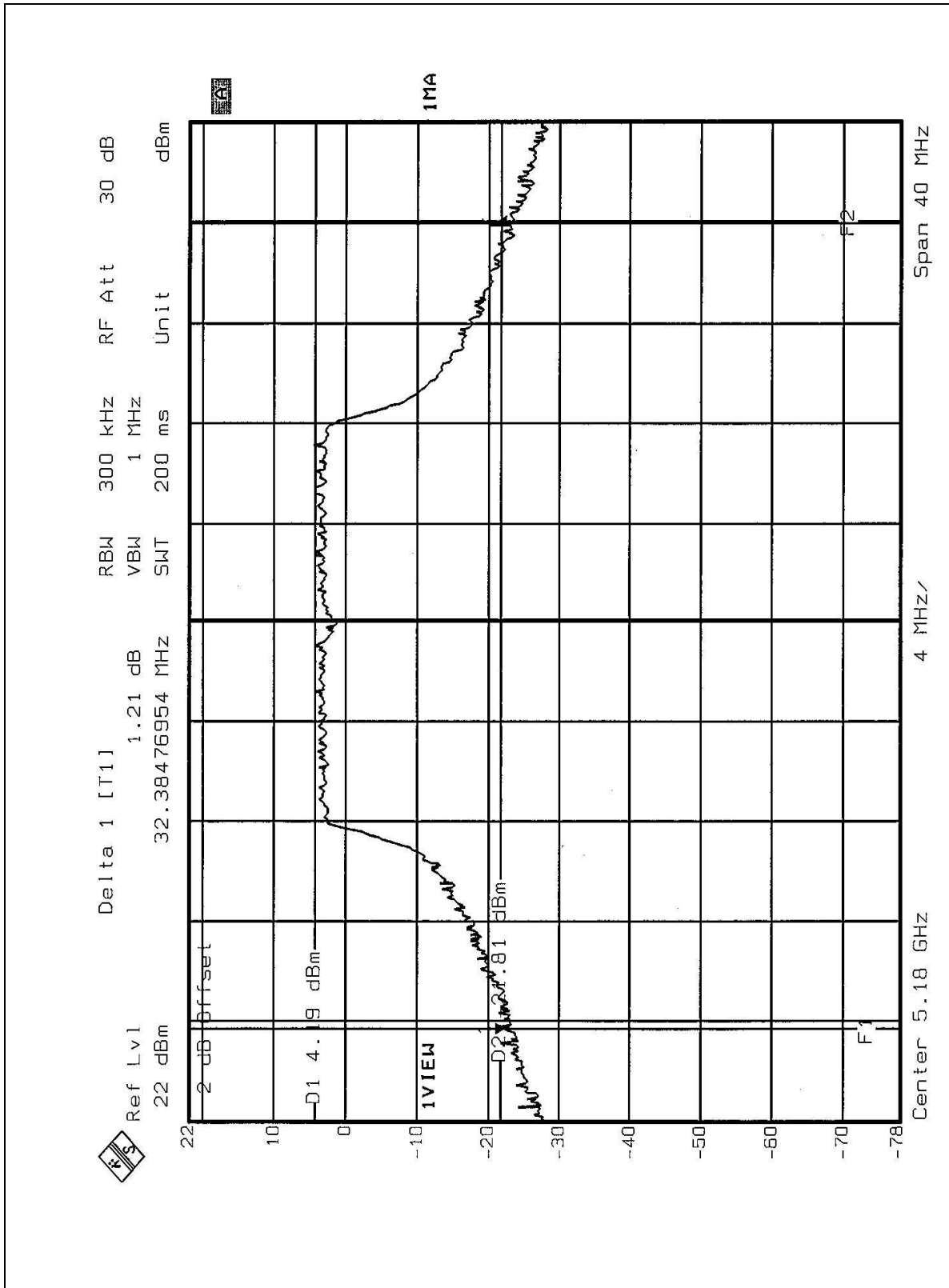
EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	16.02	17.00	32.385	PASS
4	5240	16.54	17.00	30.020	PASS
5	5260	18.51	24.00	30.862	PASS
8	5320	18.69	24.00	30.932	PASS
9	5745	13.87	30.00	31.072	PASS
12	5805	13.67	30.00	30.511	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to next 6 pages.

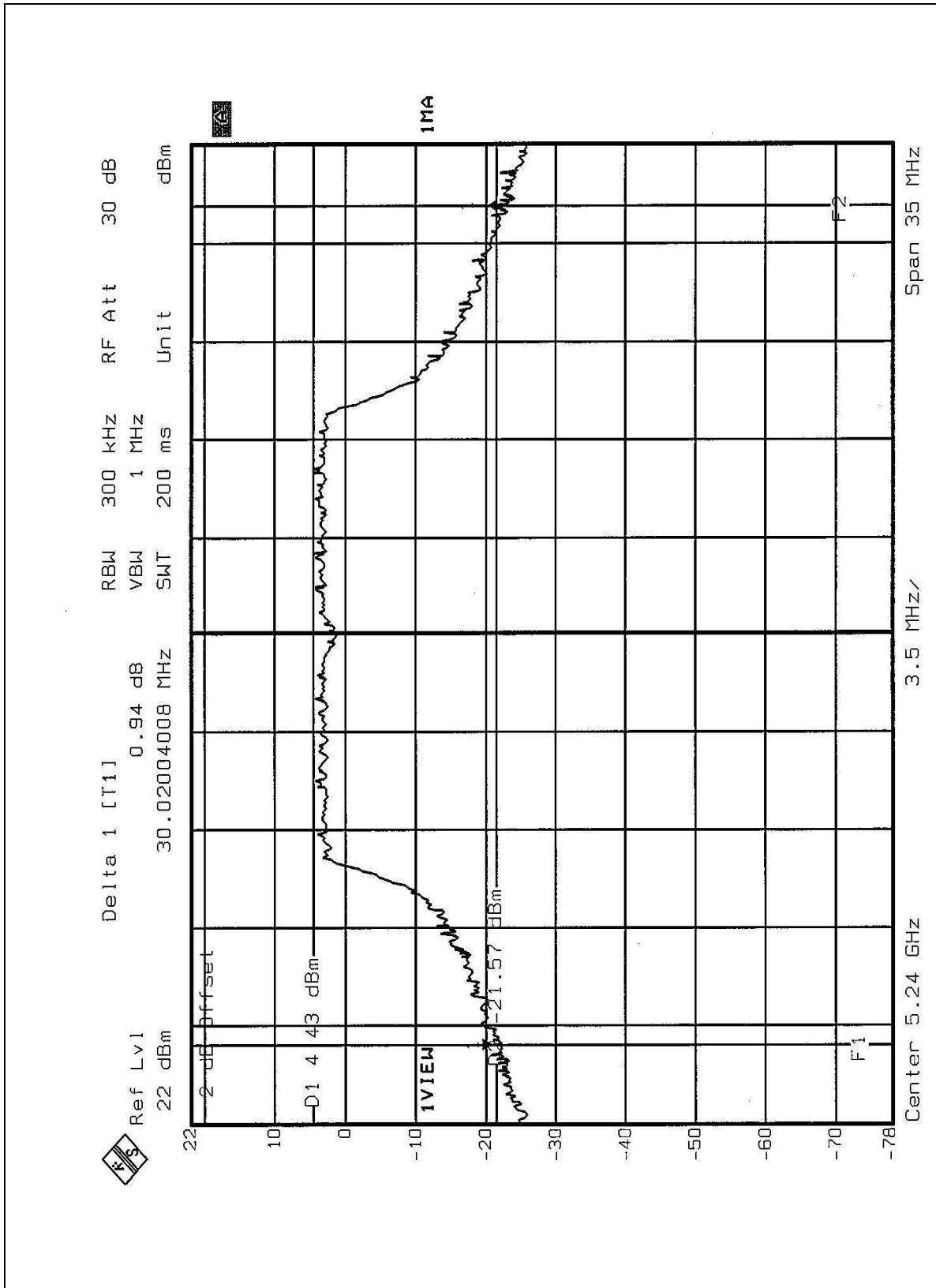


CHANNEL 1



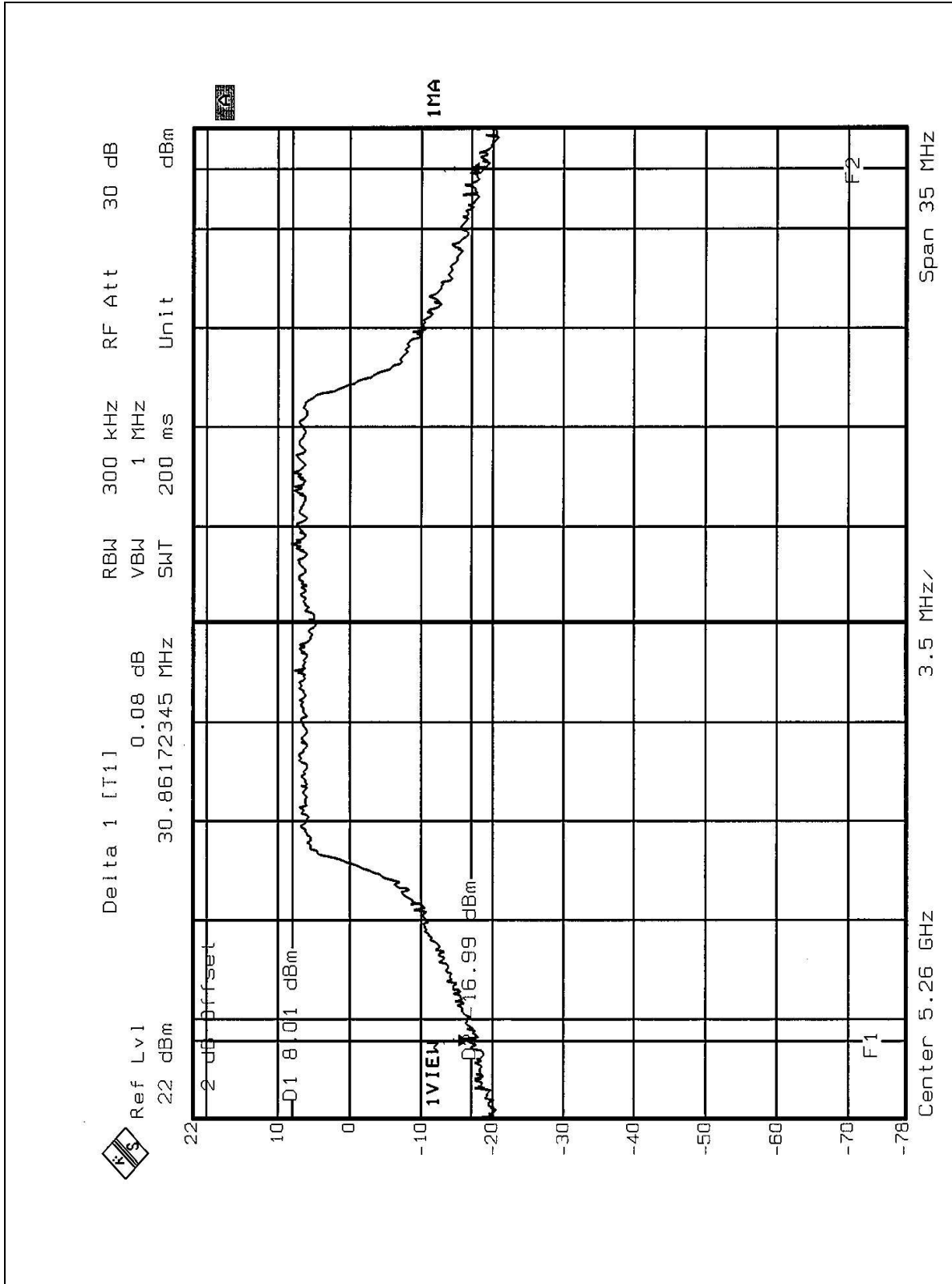


CHANNEL 4



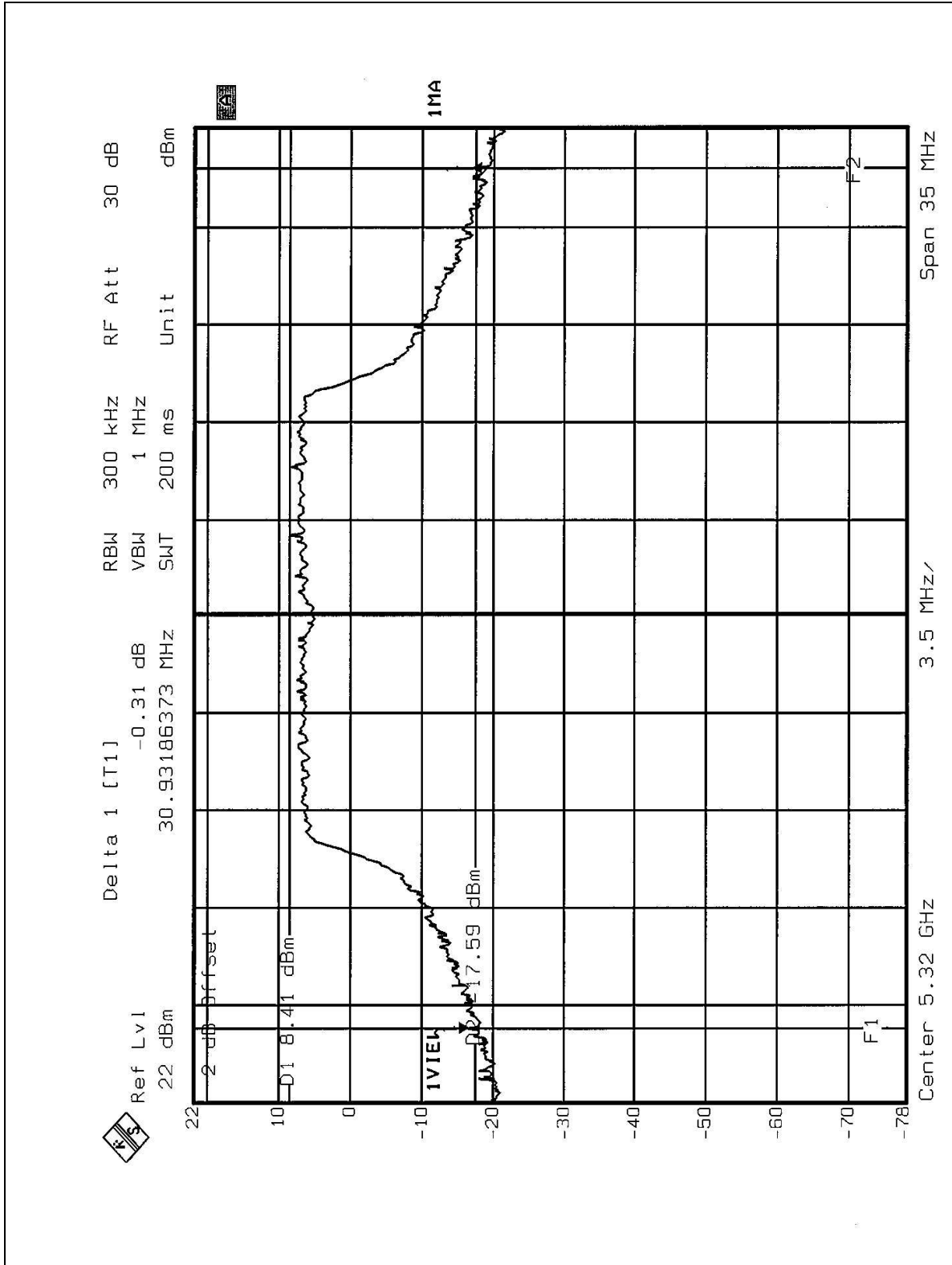


CHANNEL 5



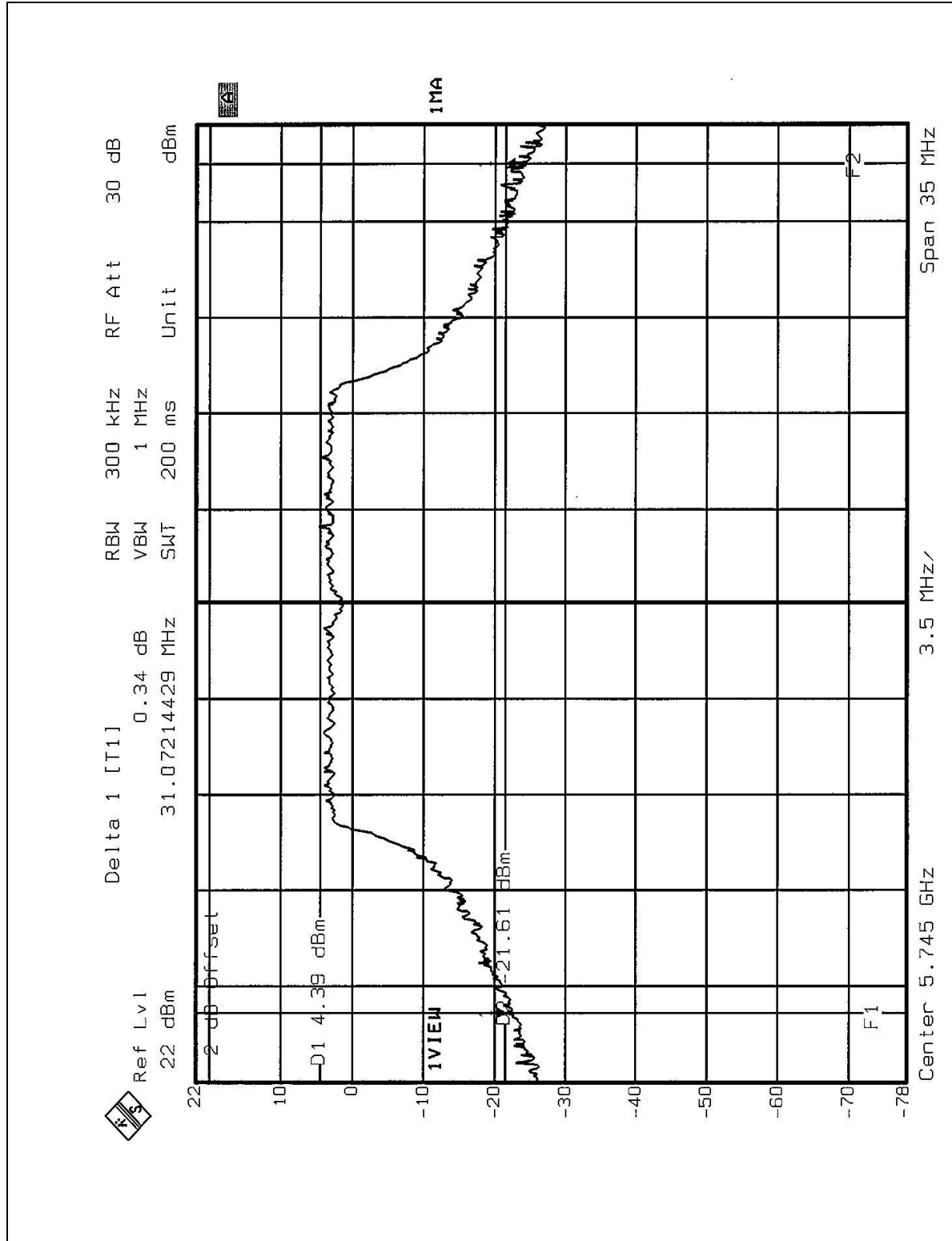


CHANNEL 8



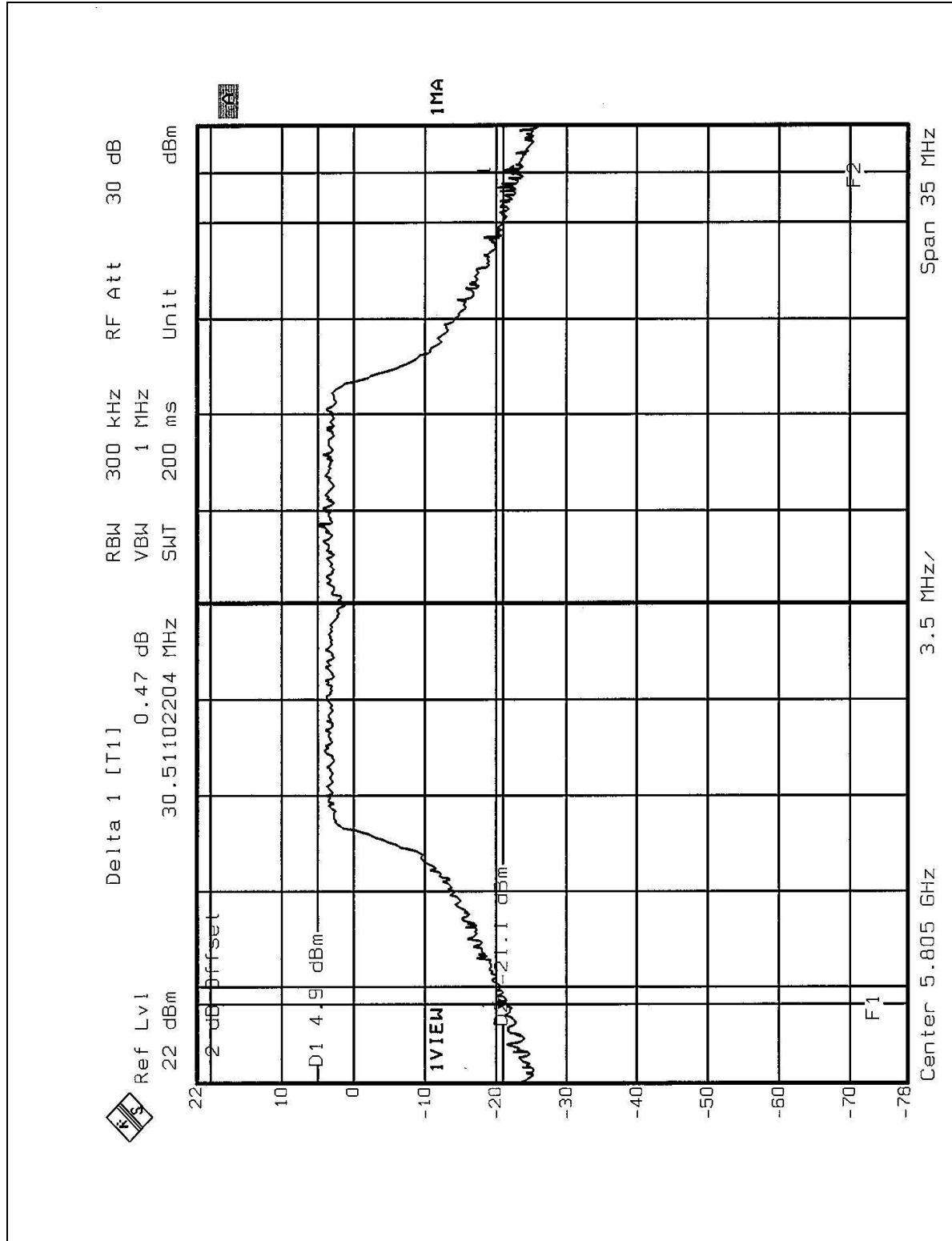


CHANNEL 9





CHANNEL 12





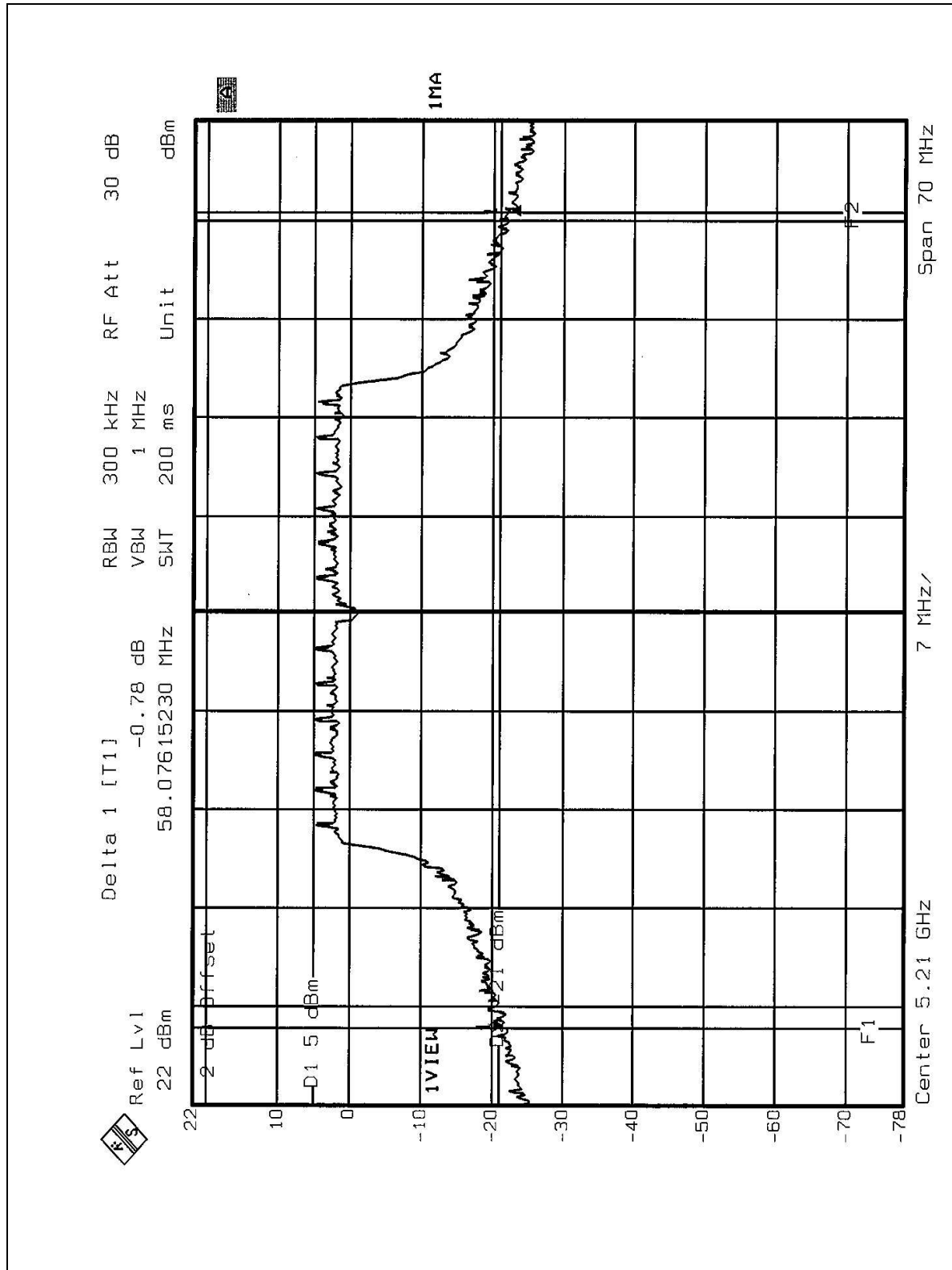
EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	16.70	17.00	58.076	PASS
2	5250	16.80	17.00	55.411	PASS
3	5290	18.56	24.00	56.253	PASS
4	5760	13.88	30.00	51.343	PASS
5	5800	11.23	30.00	48.938	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to next 5 pages.

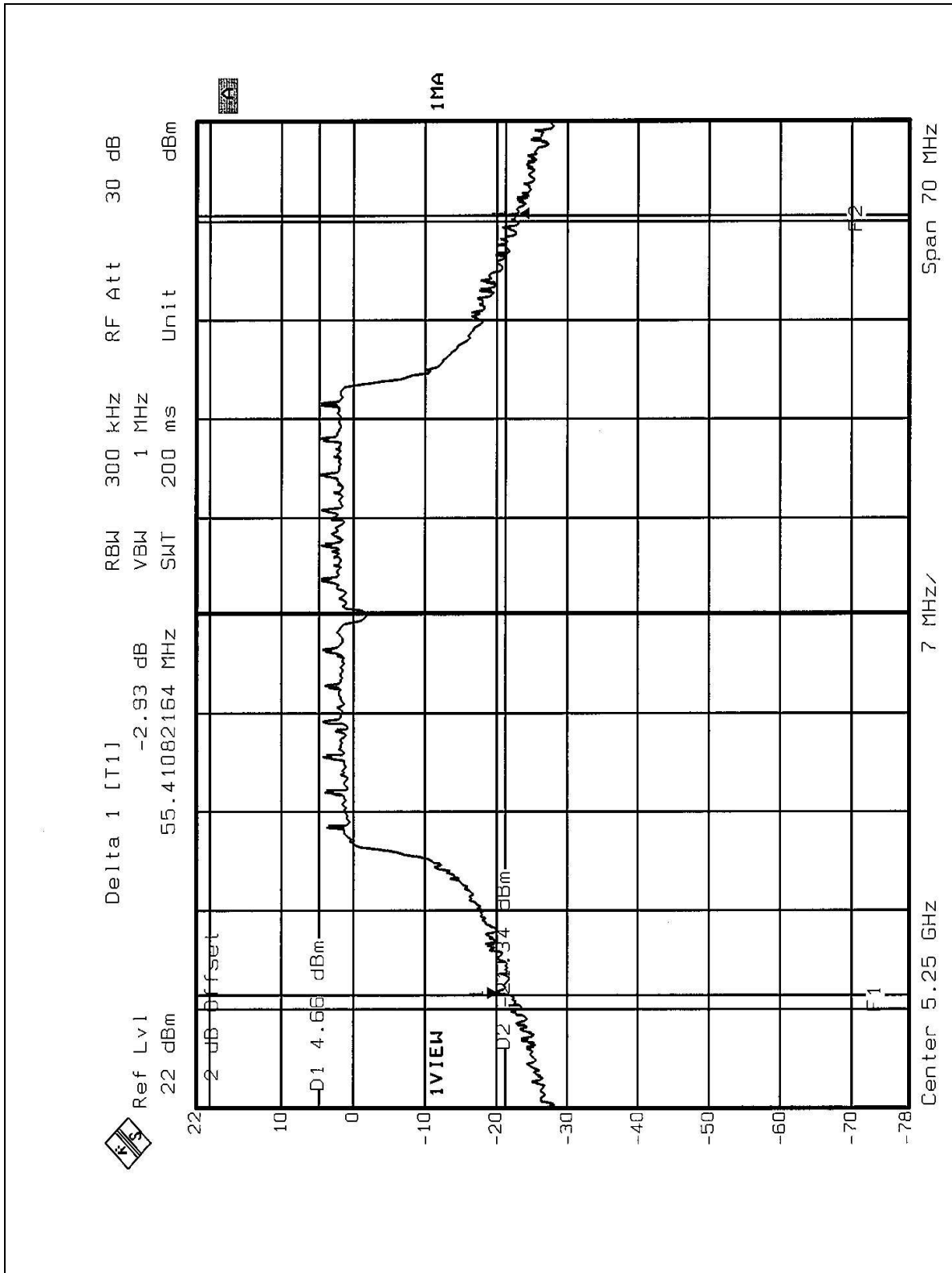


CHANNEL 1



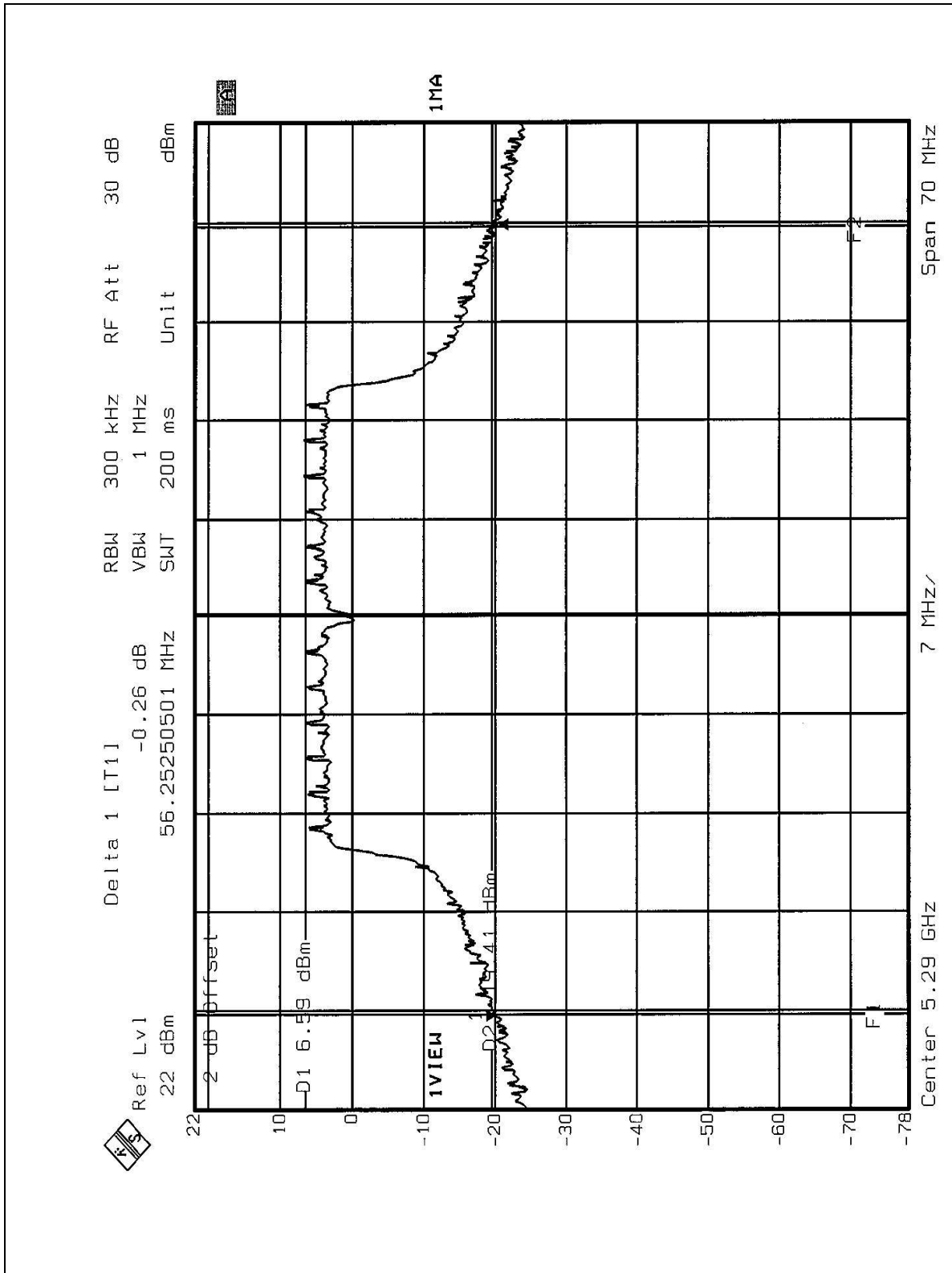


CHANNEL 2



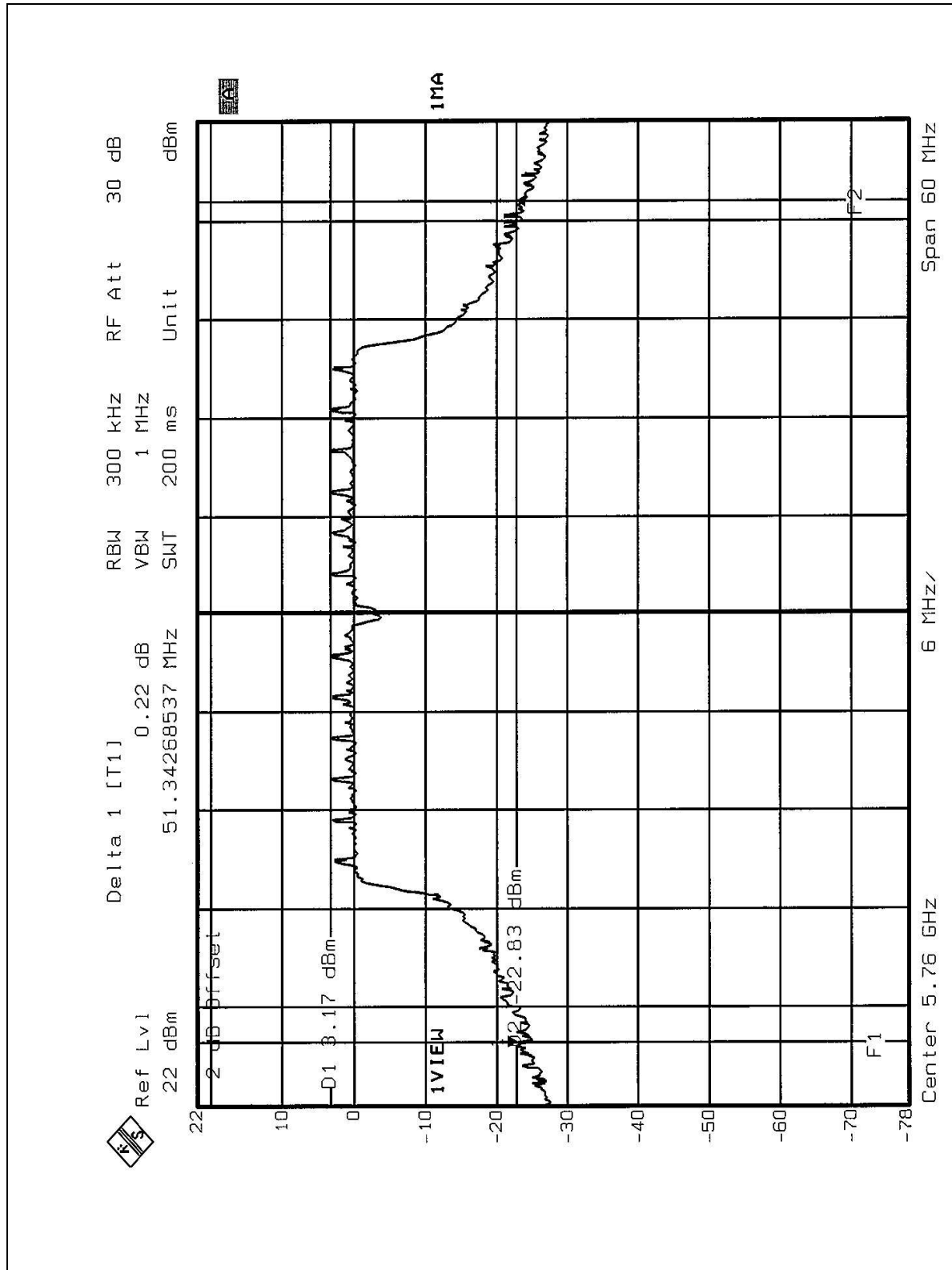


CHANNEL 3



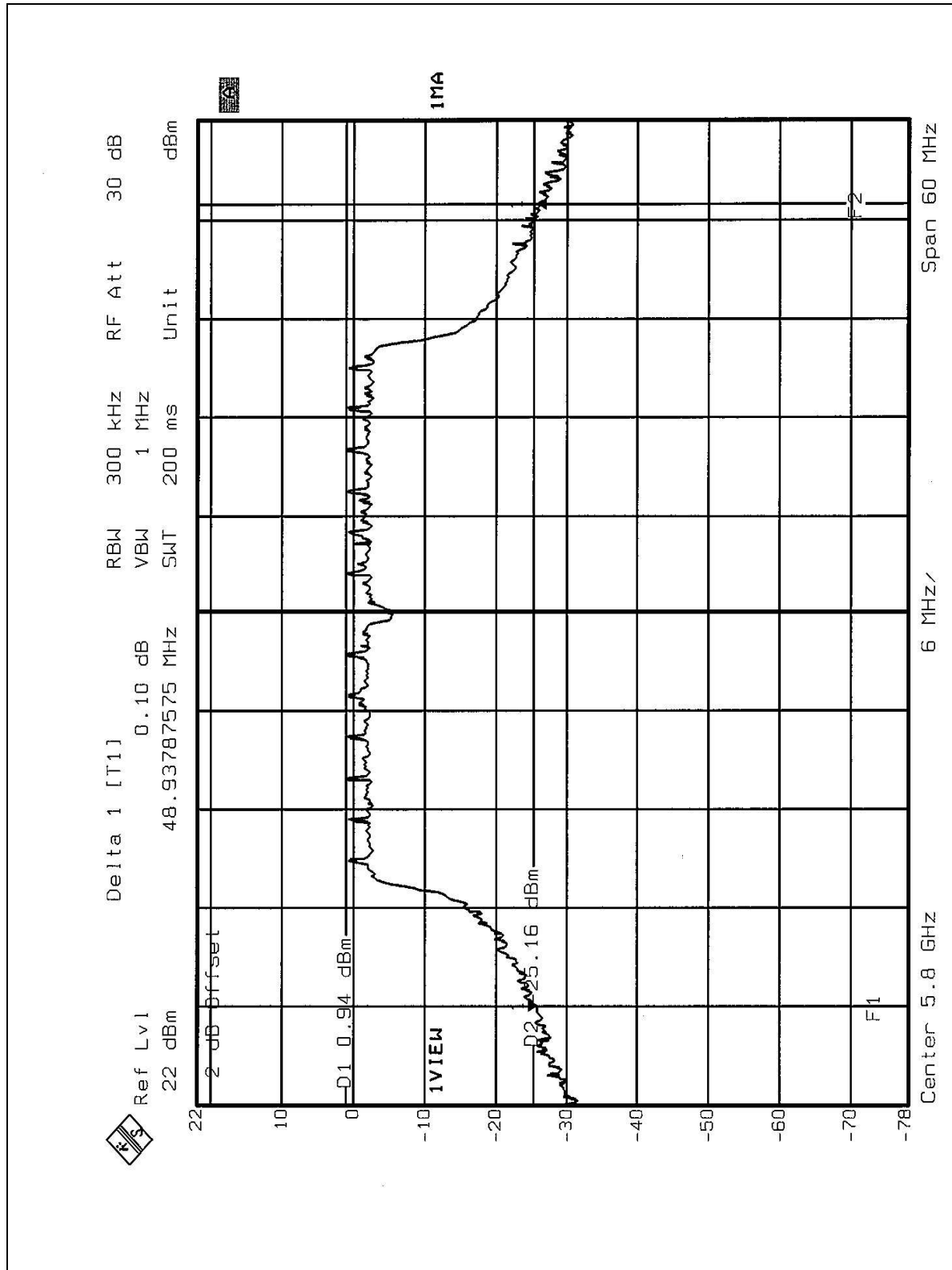


CHANNEL 4





CHANNEL 5





4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	13dB
5.25 – 5.35 GHz	13dB
5.725 – 5.825 GHz	13dB

4.4.2 TEST INSTRUMENTS

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

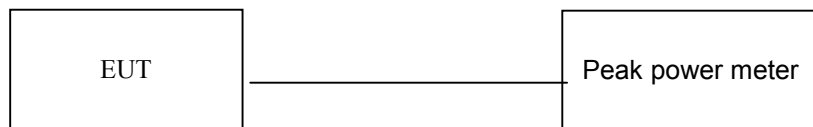
NOTE:

- 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

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 and 2 with proper resolution bandwidth setting.
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



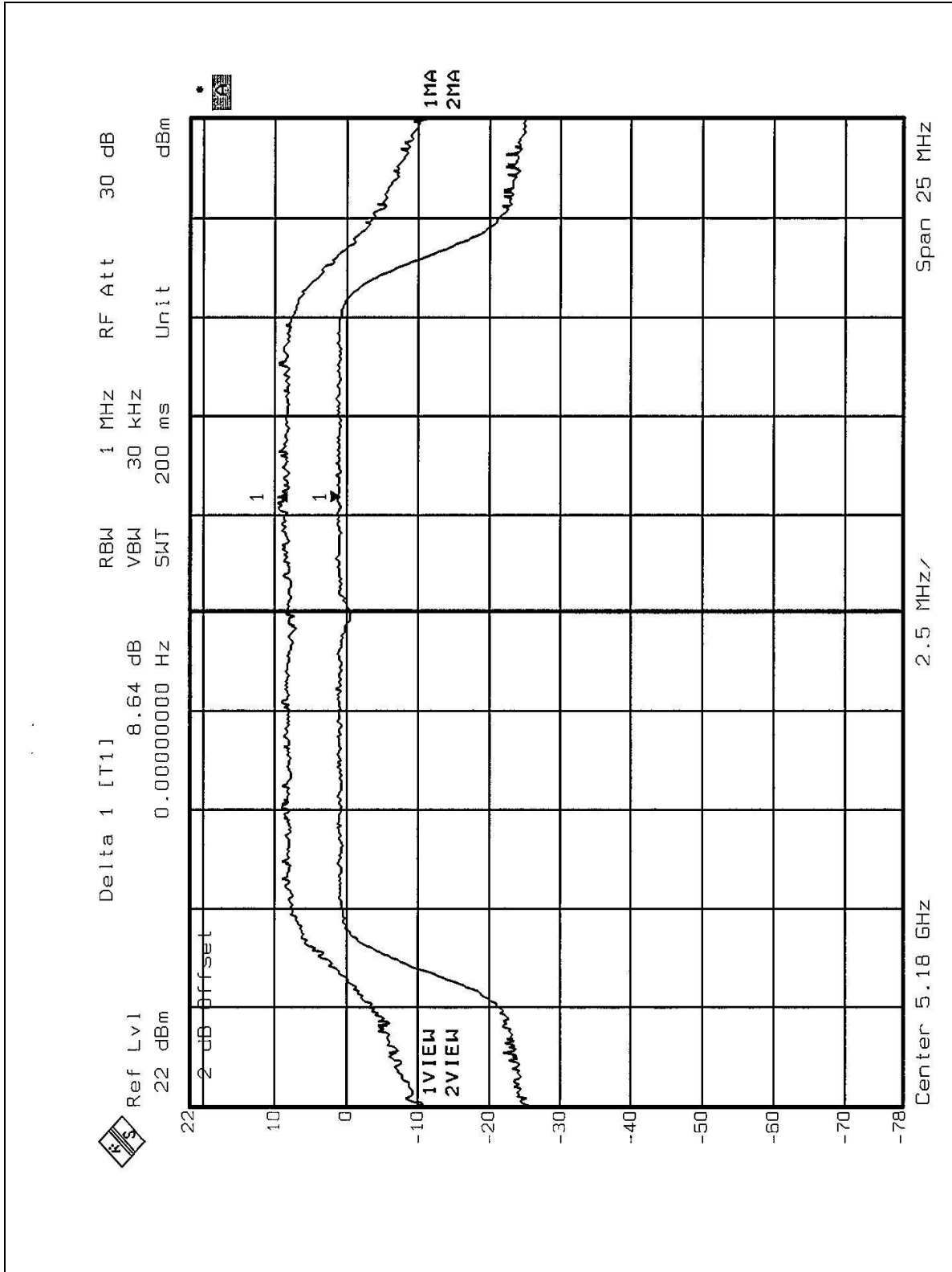
4.4.6 TEST RESULTS

EUT	IEEE 802.11a Wide band Mini PCI	MODEL	MB-23
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	8.64	13	PASS
4	5240	8.15	13	PASS
5	5260	8.37	13	PASS
8	5320	8.86	13	PASS
9	5745	8.35	13	PASS
12	5805	8.22	13	PASS



CHANNEL 1





CHANNEL 4

